



# COLLEGE OF FISHERIES

KANKANADY, MANGALURU -575 002



*a green campus*

**Tel No. :** 0824 – 2248936/ 2249256/57/58/59

**Website:** [www.cofm.edu.in](http://www.cofm.edu.in), **E-Mail:** [deanfisheries@cofm.edu.in](mailto:deanfisheries@cofm.edu.in)

# MESSAGE FROM VICE CHANCELLOR



*It gives me great pleasure to recognize that our University is progressing well in all its three major areas namely, Teaching, Research and Extension. Taking the queue from the ICAR's Farmer First concern, our University is making all efforts to empower the farming community with animal husbandry technologies. In this direction, the initiative taken by the College of Fisheries, Mangaluru (CoFM) is highly appreciated.*

*The college brochure highlights the college activities, its faculties, publication etc. As you all may be aware the CoFM was the first institution established in 1969 as the premier institute to provide academics in fisheries sector. Since then the college has been able to bring out high quality fisheries graduates, postgraduates and PhDs who have established not only nationally but also internationally as academicians, researchers, policy makers, entrepreneurs in the area of fisheries and aquatic management. The college has excellent academic faculties, fully fledged technology wing that can be operated on industrial scale with state of art, laboratories. The college has also good facilities for sports and includes gymnasium, swimming pool, playgrounds all located in a lush green scenic environment. The students in CoFM are provided with all opportunities and skills so that they can take up entrepreneurship in the area of fisheries development. This brochure highlights some of the facilities, research and extension activities carried out in CoFM.*

*CoFM has extended significant extension services to the farmer of all regions of the country in the areas of aquaculture, fish health, environment and processing technology. I hope, more such farmer oriented extension programmes and research activities will be undertaken in the coming days to solve the issues of the fisheries sectors.*

*I am happy to note that CoFM is celebrating Golden Jubilee during the year 2019-20. I wish all the best to the faculty and students and take forward all the technologies developed to the farmers for sustainable development of fisheries.*

A handwritten signature in green ink, likely of H. D. Narayanaswamy.

**H. D. Narayanaswamy**

Vice Chancellor

Karnataka Veterinary, Animal and  
Fisheries Sciences University, Bidar

## PROFESSORS DEPUTED AS KEY OFFICERS TO UNIVERSITY



**Dr. Gangadhar Gowda**

Professor (AEM),  
Head of Division (CoF,  
Mangaluru) & University  
Librarian (KVAFSU, Bidar)



**Dr. C. V. Raju**

Professor (FPT),  
Comptroller (KVAFSU, Bidar)



# DIRECTOR'S MESSAGE



*I take the pleasure in welcoming you to College of Fisheries located at Matsyanagar, Yekkur, Mangaluru, Karnataka. The College of Fisheries is under Karnataka Veterinary Animal and Fisheries Sciences University, Bidar.*

*The College of Fisheries, Mangaluru was established in 1969 with the assistance of Government of Japan and the entire college was constructed in a picturesque location by renowned American architects and engineers. The college has some of the best laboratories in the world and research facilities. The Technology Wing of the college is equipped with fish product preparation equipment that can produce fish products on commercial scale. The college is now celebrating Golden Jubilee this year. Since last 50 years the dedicated staff of this college have been bringing out well qualified students with bachelors, masters and Ph.D's. This institution provides all facilities and support to the students to improve their communication skills, critical thinking abilities, moral values and sense of responsibilities to the nation apart from the regular academics. All efforts are made by the faculties to improve the creativity and problem solving abilities of the students so that they can contribute their best to the society and the country. The infrastructure in the college are being developed with modern equipment and technologies in both aquaculture sciences, climate change adaptation, water resources management, pathology, food technology and other related fields to meet the emerging challenges of the country. The teaching staff of the college are highly qualified, experienced and dedicated, who devote their time not only to teaching but also for the overall development of the students. We are confident that the students passing out from this college will be technically sound, confident and will possess good leadership skills.*

*The courses offered by the college of Fisheries include:-*

- 1. Bachelor in Fishery Sciences – 4 years*
- 2. Master in Fishery Sciences – 2 years*
- 3. Ph.D and Post Doctoral Programmes*

*I hope with this dedicated faculty members, staff and students this college will be able to excel not only in academics but would go on to become one of the reputed international scientific and research body in the area of aquatic sciences and fisheries.*

  
**Dr. A. Senthil Vel**  
M.F.Sc., PhD  
Dean (Fisheries)



## DEPARTMENT OF FISHERIES RESOURCES & MANAGEMENT

The Department offers undergraduate & postgraduate courses which includes Taxonomy, Anatomy, Biology & Physiology of finfish & shellfish, Inland & Marine Fisheries, Marine Mammals, Reptiles & Amphibians, Fish Population Dynamics & Stock Assessment, Fisheries Regulations, Integrated Coastal Zone Management, Marine Ecosystem, Biodiversity & Conservation, Conservation & Management of Exploited Fisheries Resources, Remote sensing & GIS for fisheries.

### RESEARCH

- Taxonomy, Biology & Physiology of finfish & shellfish
- Assessment of fish & shellfish stock
- Studies on the Ecology, Biodiversity & Conservation of Fisheries Resources, Mangroves & Coral Reefs
- Application of Ecopath modeling to aquatic environment
- Studies on the potential fishing zones
- Application of Remote Sensing & Geographic information systems (GIS) for management of fishery resources
- Impact assessment of anthropogenic activities on the aquatic resources & environment
- Women empowerment in fisheries

### FACILITIES

- Remote Sensing & GIS laboratory
- Histology laboratory
- Underwater camera
- Fish taggers
- Scale readers
- Tools for analyzing water quality

### SERVICES

- Identification of finfish, shellfish, aquatic mammals, reptiles, amphibians, eggs & larvae
- Collection of fisheries data & dissemination to fisherfolk
- Conducting awareness programme on "Responsible Fisheries" for the management of marine resources
- Consultancy services for the fisherfolk on the sustainable utilization of the resource



**Dr. H.N. Anjaneyappa**

(Professor & Head  
Taxonomy and  
Stock Assessment)



**Dr. Mridula Rajesh**

Assistant Professor  
(Fish Biology & Physiology,  
Aquatic Pollution)



**Dr. Kumar Naik A.S.**

Assistant Professor  
(Fisheries Resources  
& Management)

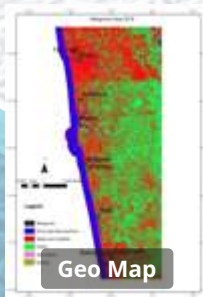


**Dr. Rajesh D.P.**

Assistant Professor  
(Fishery Biology)



Fish Scale Reader



Geo Map





## DEPARTMENT OF AQUACULTURE

The Department offers subjects which include Freshwater Aquaculture, Fish Nutrition & Feed Technology, Fish Food Organisms, Ornamental, Coastal Aquaculture & Mariculture, Reservoir Aquaculture, Fish Genetics & Breeding, Fisheries Biochemistry, Fish Biotechnology & Bioinformatics, Finfish & Shellfish Hatchery Management.

## RESEARCH

- Fish Genetics and Fish Breeding
- Fish Nutrition and Feed Technology
- Ornamental Fish Production
- Fish Biotechnology and Fish Health
- Fish Farming Systems

## FACILITIES

- Research and Instructional fish farm
- Earthen ponds and cement cisterns
- Circulatory system for nutrition research
- Fish feed production and quality control lab
- Portable Chinese hatchery, Glass jar hatchery
- Freshwater prawn hatchery
- Fish Histopathological facility
- Fish Biotechnology and Cell culture unit
- Aquarium fabrication

## SERVICES

- Fish seed production and distribution
- Training program on fish farming & ornamental fish culture and its management
- Farm advisory and Extension services
- Fisheries exhibitions and awareness program

### Dr. E.G. Jayaraj

Professor & Head  
(Fish Nutrition)



### Dr. Ganapathi Naik M.

Professor  
(Fish Production & Management,  
Fish Disease, Oyster Bed Ecology)



### Dr. Abhiman Ballyaya

Assistant Professor  
(Fish Biotechnology)



### Dr. Ajay S. K.

Assistant Professor  
(Fishery Biochemistry)



### Mr. Manjulesh Pai

Assistant Professor  
(Fish Culture & Breeding)



### Dr. Varuna Baglodi

Assistant Professor  
(Fish Nutrition)



Chinese Hatchery



Research and Instructional  
Fish Farm



Fish Feed Quality Control Lab



Recirculatory System for Feed Trials

## DEPARTMENT OF AQUATIC ANIMAL HEALTH MANAGEMENT

The Department offers undergraduate and postgraduate courses and is specialized in Fundamentals of Microbiology, Fish and Shellfish Pathology, Fish Immunology, Therapeutics in Aquaculture, Fish Toxicology, Microbial & Parasitic Diseases of Fish and Shellfish

### RESEARCH

- Molecular diagnostics for disease of aquatic animals and microbes of public health significance
- Gene expression in aquatic animals
- Development of vaccines and Immunostimulants
- Microscopic laboratory
- Molecular techniques in fish safety assurance
- Bioinformatics in Fisheries

### FACILITIES

- Microbiology laboratory
- Molecular diagnostic laboratory - Polymerase Chain Reaction, Reverse Transcriptase - PCR, Real Time PCR, Electrophoresis, Gel documentation & analysis, Probe hybridization etc.
- Recombinant DNA and protein expression facility
- Cell Culture Laboratory
- Bioinformatics Centre
- Wet Laboratory

### SERVICES

- Shrimp seed testing for bacterial, fungal and viruses
- Microbiological analysis of water, ice, food, milk etc.
- Water potability testing
- Industrial water/effluent analysis
- Quality assessment of seafood
- Chemical analysis of hatchery and pond water
- Bioinformatics analysis and training



**Dr. K. S. Ramesh**

Professor & Head  
(Fish Pathology)



**Dr. S.K. Girisha**

Assistant Professor  
(Fishery Microbiology,  
Immunology)



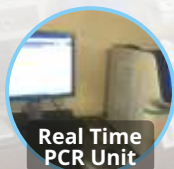
**Dr. Suresh T.**

Assistant Professor  
(Fishery Microbiology,  
Toxicology)



**Dr. Malathi Shekar**

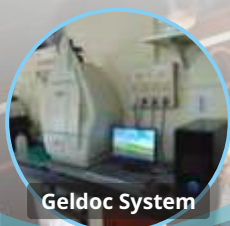
Assistant Professor  
Bioinformatics Centre  
(Microbiology and Bioinformatics)



Real Time  
PCR Unit



Wet Lab Facility



Geldoc System



Bioinformatics  
Center



Cell Culture  
Laboratory



Microscopic  
Laboratory



# DEPARTMENT OF AQUATIC ENVIRONMENT MANAGEMENT

The Department offers undergraduate and postgraduate courses in Meteorology, Climatology & Geography, Soil & Water Chemistry, Limnology, Marine Biology, Biodiversity & Environmental Sciences, Fishery Oceanography, Coastal Zone & Disaster Management, Aquatic Pollution, Environmental Biotechnology & Toxicology, Planktonology, Aquatic, Benthic & Restoration Ecology etc.

## RESEARCH

- Eco toxicology studies
- Coastal water monitoring
- Environment impact assessment studies
- Riverine and estuarine water quality monitoring
- Integrated coastal zone management

## FACILITIES

- Plankton analyzer
- Benthos analysis equipment
- Toxicant analysis laboratory
- Sensors for pressure, temperature, CO2 level and humidity
- Portable kit for measuring water quality parameters

## SERVICES

- Coastal water monitoring
- Research in aquatic bio-diversity
- Eco-toxicology and aquatic pollution
- Service support for environment policy decision

### Dr. Shivakumar M

Professor & Head  
(Aquatic Biology),  
Associate Director of Extension



### Dr. Lakshmipathi M.T.

Professor  
(Marine pollution and  
Coastal Zone Management)



### Dr. A.T. Ramachandra Naik

Professor  
(Marine Biology and  
Oceanography)



### Dr. T.S. Annappaswamy

Assistant Professor  
(Limnology)



## DEPARTMENT OF FISHERIES ENGINEERING AND TECHNOLOGY

The Department offers under graduate and post graduate courses which includes Refrigeration and Equipment Engineering, Fishing Craft Technology, Fishing Gear and Fishing Technology, Navigation and Seamanship, Aquaculture Engineering, Engineering Graphics, Sea Safety and Disaster Management, Fish Processing Machinery, Responsible Fishing and Marine Engineering.

### RESEARCH

- Energy conservation in fishing vessel
- Popularize the responsible fishing for conservation of fishery resources
- Development of eco-friendly fishing gears
- Creating awareness among farmers about modern eco-friendly aqua farms
- Design and layout studies of fish farms
- Design and fabrication of conventional aerators
- Assessment of seasonal fishing pattern along Karnataka coast
- Gillnet selectivity on reservoir fisheries
- Applications of remote sensing for capturing marine fisheries along Karnataka coast.
- Artificial reefs for enhancing the fish catch
- Use of solar based refrigeration system on board the fishing vessel
- Safety of crews and vessel out at sea
- Yellow fin tuna tagging

### FACILITIES

- Research and Training vessel (Nethravathi)
- Refrigeration plant and Fish Processing Machineries
- Fishing gear material testing Laboratory
- Fishing gear laboratory
- Drawing hall for Engineering drawings and navigational chart works.
- Fishing and Navigational Charts, Flags and other communicational systems
- Fishing Craft and Marine Engine Laboratory
- Aquaculture Engineering Laboratory

### SERVICES

- Maintenance of in board and out board marine engines
- Maintenance of refrigeration and ice plant
- Planning, designing and construction of aquafarms
- Awareness to fisherman for safe navigation
- Use of electronic equipments on board the fishing vessel
- Testing of fishing gear materials
- Materials used for the construction of FRP boats



**Dr. S. Varadaraju**

Professor & Head  
(Fishing Craft Technology)



**Shri. Shashidhar H. Badami**

Associate Professor  
(Refrigeration and  
Equipment Engineering)



**Dr. Jaya Naik**

Assistant Professor  
(Fishing Craft &  
Gear Technology)



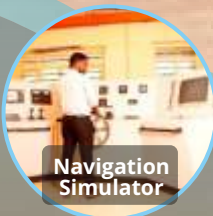
**Shri. Ganesh Prasad L**

Assistant Professor  
(Fishing and Fishing  
Gear Technology)

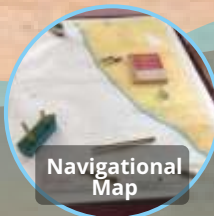


**Capt. Jayaprakash Mendon**

Skipper of Boat  
(Seamanship & Navigation)



Navigation  
Simulator



Navigational  
Map



Net Mending  
Accessories



Fish Catch



## DEPARTMENT OF FISH PROCESSING TECHNOLOGY

The Department offers undergraduate & postgraduate courses which includes Food Chemistry & Fish in nutrition, Fish Canning & Freezing Technology, Fish Products & Value Addition, Microbiology of Fish and Fishery Products, Fish By-Products & Waste Utilization, Fish Packaging Technology, Quality assurance of Fish & Fishery Products.

## RESEARCH

- Quality Assurance of fish and fishery products
- Product Development
- Structure function relationship of proteins during processing
- Bioactive peptides and its bio- molecules
- Thermal processing of fishery products

## FACILITIES

- Fish processing units
- Fish Freezing and Frozen storage
- Fish Ham and Sausage production unit
- Fish Can and retort pouch processing unit
- Fish By products and value added products production unit
- Protein Chemistry laboratory (Rheometer, HPLC, GC)
- Quality control laboratory

## SERVICES PROVIDED

- Demonstration on importance of value added products from low value fishes
- Demonstration on scientific method of drying, salted and dried fish
- Demonstration on plant sanitation and hygiene for the seafood processors.
- Preparation of fishery by -products

### Dr. B. Manjanaik

Professor & Head  
(Fish Canning, Thermal Processing & Fisheries Microbiology)



### Dr. Siddappaji S.

Associate Professor  
(Fish processing Technology, Fish By-products & Value Addition)



### Dr. M.V Chandra

Assistant Professor  
(Fish Protein Chemistry, Structure – Function Relationship of Proteins)



### Dr. Manjunatha Reddy

Assistant Professor  
(Fish Freezing, Fish Waste Utilization)



### Mr. Gajendra

Assistant Professor  
(Fishery By-products)



## All India Coordinated Research Project Staff

### Dr. I. P. Lakshmisha

Senior Scientist  
(Process Biochemistry, Natural Preservatives)



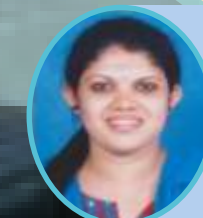
### Dr. Arun Kumar

Scientist  
(Process Engineering, Product Development)



### Ms. Amitha

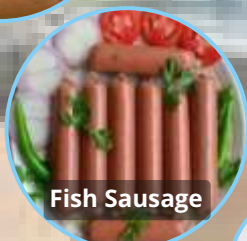
Scientist  
(Fish Processing Technology)



Fish Processing Machineries



Retort Pouches used for Canning



Fish Sausage



Fish Cutlets



## DEPARTMENT OF FISHERIES ECONOMICS, STATISTICS AND EXTENSION

The Department offers undergraduate & postgraduate courses which includes Information & Communication Technology, Statistical Methods, Fisheries Economics, Fisheries Extension & Communication Skills, Fisheries Finance & Management, Fisheries Policy & Law, Technical Writing, Research Methodology, Advanced Statistical Methods, Software for Fisheries Data Analysis & Management.

### RESEARCH

- Study of socio-economic and demographic profile of Fisher community
- Focussing on alternative livelihood opportunities for the community
- Economic feasibility analysis
- Bio Statistics applications in Fisheries

### FACILITIES

- Statistical Packages for Social Sciences (SPSS) Software for data analysis
- Conceptual, computational and mathematical tools for quantifying uncertainty and making sense of complex fisheries data
- Central computing laboratory with Wi-Fi facility

### SERVICES PROVIDED

- Providing Extension and Consultancy services to fish farmers
- Stalls on various activities related to Fisheries in Krishi Melas
- Awareness programmes on government schemes for Fisher folk
- Educating farmers regarding measures to mitigate risks
- Lab to Land Programmes



**Dr. S.R. Somashekara**

Professor & Head  
(Anatomy & Physiology  
of Fish & Shellfish)



**Ms. Vandana K.**

Assistant Professor  
(Fishery Statistics)



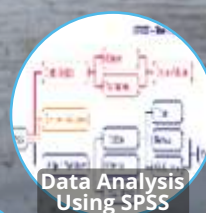
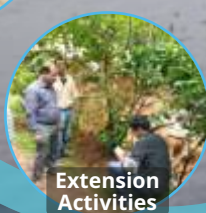
**Mr. Darren D'Mello**

Assistant Professor  
(Computer Science)



**Ms. Swathi**

Assistant Professor  
(Fishery Economics)





## DEPARTMENT OF PHYSICAL EDUCATION

The Department offers undergraduate courses which include Physical Education, First Aid and Yoga Practice & Swimming.

### INDOOR

- Wooden Badminton Court
- Gymnasium with Multi-gym and Free Weights
- Table Tennis Hall

### OUTDOOR

- Multipurpose ground : Athletic track, Football, Cricket
- Volleyball court
- Swimming Pool
- Kabaddi court
- Kho-Kho court
- Basketball court
- Cricket Concrete Practice Nets

#### Mr. Manoj Kumar

Assistant Professor  
(Physical Education, Fitness  
& Sports Training)



#### Mr. Jagadish B.

(Senior Life Guard)



#### Mr. Sanjeeva

(Sports Helper)



Kho-Kho



Table Tennis



Badminton



Basketball



Kabbaddi



Sports Day



Football



Gym



Swimming Pool



Cricket





# BIODIVERSITY IN CAMPUS





## KRISHI VIGYANA KENDRA

The Krishi Vigyan Kendra (KVK), Dakshina Kannada is a district level resource and knowledge Centre established by the Indian Council of Agriculture (ICAR) to provide various types of farm support activities like technology dissemination to farmers, training, awareness and skill development in agriculture and allied sector. The ICAR-KVK of Dakshina Kannada has under its jurisdiction 5 taluks with 17 hoblis, 203 gram panchayaths and 354 inhabited villages.

## SERVICES PROVIDED

- Conducting on-site farm testing to identify the location specificity of agricultural technologies under various farming systems
- Organizing frontline demonstrations to establish production potential of various crops and enterprises on the farmers' field
- Organize need based training and extension programs to farmers and update them on recent advances in agricultural technologies
- Production of quality seeds, planting materials, livestock breeds, animals products, bio-products etc., on demand and supply basis to clientele
- Work as resource and knowledge centre of Agricultural Technology to support the initiatives of public, private and voluntary sectors for improving the agricultural economy of the district

## FACILITIES

- Vermi-composting Unit.
- Poultry Unit
- Dairy Unit
- Fish seed rearing unit
- Ornamental fish rearing unit
- Pig rearing unit
- Azolla production unit
- Coconut demonstration unit
- Paddy seed production and storage unit.
- Medicinal plant garden
- Poly house, Training hall, Farmer Hostel
- Plant protection laboratory.
- Fish Museum.
- Medicinal plants demonstration unit
- Fodder production unit
- Summer ploughing
- Paddy harvest and baler
- Papaya plot
- Fodder unit





## FACILITIES IN THE COLLEGE

- Library
- Smart classrooms
- Auditorium
- Video-Conference Hall
- Seminar/ Conference Halls
- Career Guidance Cell
- Alumni and College Guest House
- Hostels for Boys and Girls
- Cafeteria
- College Bus
- Wi-Fi & Networking
- Dispensary
- Bank and ATM
- Post Office



Library



Auditorium

## INITIATIVES

- Ragging free campus
- No Drug Addiction
- Plastic Free Campus
- Gobar Gas Unit
- Solar Electricity
- Medicinal Plant Garden
- Water conservation
- E-Workflow
- Vermicomposting
- Rain Harvesting



Dispensary



Boys Hostel



Guest House



WiFi & Networking



Spacious classrooms



Video Conference Hall



Post Office



Girls Hostel



Bank



***Extending a helping hand ...***



## ***Extracurricular Activities***

**• NSS • Youth Festival • Fishco Festival • Intercollegiate sports meet**



College of Fisheries, Mangaluru is located in the coastal belt of Karnataka, on the National Highway 66. The college can be reached through buses passing through NH 66.

### Popular Tourist Destinations

Panambur Beach	15 Km
Someshwara Beach	11 Km
Pilikula Zoological Park/Planetarium	11 Km
Kateel (Durgaparameshwari Temple)	27 Km
Mangaladevi Temple	4 Km
Ullala Darga	8 Km
Aloysius Chapel	5 Km
Jain Shrines	52 Km
St Marys Islands	69 Km
Bekal Fort	70 Km

### How to reach?

Mangaluru Central Railway Station	4 Km
KSRTC Mangaluru Busstand	6 Km
Mangalore International Airport	14 Km



### Boarding and Lodging | Mangalore, Karnataka

Government Circuit House	5 Km
Ocean Pearl	4 Km
Moti Mahal	4 Km
Goldfinch	4 Km



### Address:

The Dean (Fisheries)  
College of Fisheries  
Yekkur, Kankanady P.O.  
Mangaluru - 575 002  
Karnataka, India

**Tel No.:** 0824 - 2248936/ 2249256/57/58/59

**Fax:** 0824 - 2248366

**Email:** deanfisheries@cofm.edu.in

**Website:** www.cofm.edu.in