

# **SELF-STUDY REPORT**

## **for Masters Programme in Fisheries Extension**



*Submitted to*  
**National Agricultural Education Accreditation Board**



**College of Fisheries**  
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## **6.4. Self-Study Report for Masters Programme in Fisheries Extension**

### **6.4.1. Brief History of Degree Programme**

In 2015, the 'Department of Extension and Social Sciences' was created under the College of Fisheries, Lembucherra by way of merging the two erstwhile Departments of 'Fisheries Extension' and 'Economics and Statistics' which had been in existence since inception of the college in 1998. Apart from being involved in imparting UG teaching leading to B.F.Sc. degree in congruence with the recommendation of the Fifth Dean's Committee, the Department has also been offering Masters' programme in 'Fisheries Extension' since 2010 as per the model PG syllabus of ICAR, New Delhi. Alongside, it is also mandated with carrying out research in relevant frontier areas as well as coordinating Extension Programmes, Extension Services and other outreach activities of the college. Under this degree programme, 40 credits comprising of eight courses are offered from this discipline apart from other minor, supporting courses, along with Master's Seminar and Master's Research. As prescribed, the discipline has the intake capacity of five (05) students including one (01) ICAR nominee.

#### **Objective of the degree programme**

- To produce globally competitive post-graduates in Fisheries Extension.
- To promote the advancement of learning and persuasion of research in fisheries sciences.
- To make the post-graduates competent to impart extension services to the stakeholders.
- To meet the requirement of well-trained skilled manpower in the North-Eastern states.
- To facilitate startups, aqua-entrepreneurship and also to undertake such other activities as it may deem fit from time to time.

#### **Accomplishments**

So far 22 students have passed out from the department. Many of them got employments such Faculty in Fisheries College, Fishery Officers in the State Departments, NGOs, JRF/SRF in Research Projects, Self-employed and few students are pursuing Ph.D.

### **6.4.2. Faculty Strength**

The Department of Extension and Social Sciences comprises faculty with specialization in the disciplines of Agricultural/Fisheries Extension, Agricultural Economics and Agricultural Statistics. Under the offered discipline, four (04) faculties are eligible to guide PG students in 'Fisheries Extension' although all the seven (07) faculties have sufficient experience in the field

of teaching and research in their respective discipline. The faculty strength of the department is given below:

Sl. No	Sanctioned Faculty	Faculty in Place	Vacant Position	Faculty Recommended by ICAR /UGC/VCI/other regulatory body
1.	Professor 1	1	-	1
2.	Associate Professor 2	2	-	1
3.	Assistant Professor 4	3	1	2
<b>Total 7</b>		<b>6</b>	<b>1</b>	<b>4</b>

#### 6.4.3. Technical and supporting staff

The administrative and accounts supporting staff are centralized in the college and are operating under the direct control of the Dean as part of Dean's office. The dedicated technical staff and supporting staff allotted to the department are as below:

S. No.	Designation	Staff in place
<b>Technical staff</b>		
1	Field cum Laboratory Assistant	2
2	Computer Operator	1
<b>Supporting staff</b>		
3	Multi-Tasking Staff	1

In addition to the above staff, Skilled and Unskilled labours are hired on contractual basis.

#### 6.4.4. Classrooms and Laboratories

The department has well established laboratories for conducting UG/PG/PhD practical in the courses related to the Fisheries Extension, Fisheries Economics and Statistics. For UG practical departmental laboratories (Fisheries Extension and Fisheries Economics) are used while for PG and Ph.D. Courses Bioinformatics Lab is used.

Sl. No	Name of the facility	Facilities Available
1.	Fisheries Extension Laboratory	Seating facilities 30 students with white board, Audio-Visual Aids, OHP, internet connectivity.
2.	Fisheries Economics/Statistics Laboratory	Seating facilities 30 students with white board, calculators and internet connectivity.

3.	Language Lab	30 no. of Desktop, 10 KVA UPS, Language Software, Microphone, Computer Table and Chair with Seating facilities 30 students and high-speed internet connectivity
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Fig. Language Laboratory under IDP



Fig. Bioinformatics Lab

#### 6.4.5. Conduct of Practical and Hands-on Training

Since in Fisheries Extension and Fisheries Economics courses many practicals are field oriented hence the UG as well as PG students were provided exposure through field visits as per requirement. M.F.Sc. Fisheries Extension students are provided with practical exposures on different dimensions of fisheries extension as mentioned below:

<b>Practical/ Hands on training</b>	<b>Description</b>
Field visits in rural areas	Students are exposed to different rural situations; they are given practical exposure to study farm situations and to build good rapport with the farmers
Participatory approaches	Under the supervision of the faculty in the department, students conduct different extension activities of collecting farm information and data using different PRA tools
Group discussion farmers with	Students are also engaged in group discussion and brainstorming with farmers to understand the main issues faced by the farmers. They are also engaged in different extension activities performed

	under the MGMG programme to give them proper insight of the rural lives.
Usage of different extension communication methods	Students are engaged and supervised in preparation of different extension communication tools viz., preparation of leaflets, poster, charts, radio talk, etc
Visit at different institutes	Exposure visits to different organizations/institutes are conducted from time to time to provide them the knowledge on different development activities being formed by the concerned institute. KVK, Dept of Fisheries, ICAR, Cooperative societies, etc are some of the institutions which are visited by the students.
Farm Journalism	Students have been oriented towards journalistic views on different aspects of fisheries programmes and developmental interventions. They are exposed in delivering radio talk, script writing, news analysis, news writing and basics of news production, etc
Usage of different ICT tools	Students are made acquainted with usage of different instructional tools associated with extension communications. Usage of different multimedia tools, internet and web-based tools, cloud-based applications for communication, usage of Learning management Systems (LMS), etc
Adoption of different fisheries technologies	Students are also supervised in studying adoption behaviour of farmers on different fisheries technology/practices.
Training Need Assessment of fish farmers	For devising need-based programmes, students are acquainted with a standard methodology for training need assessment
Impact assessment of different fisheries programme	As part of course curricula, students have been sensitized in different tools of impact assessment viz., Before-after, with-without quantitative and qualitative changes, feasibility analysis, task analysis, etc
Co-management practices and stakeholder analysis in fisheries	For managing the common and community-based resources, students have been practically made aware of the principles/types/stages of co management especially in case of common properties in fisheries and they have been sensitized in

	stakeholder analysis for identifying appropriate stakeholder(s) towards sustainable co-management arrangements
Gender Study and Community Mobilization	Students are exposed to different fisheries related activities specifically performed by a gender in certain region. They are made aware of the roles played by different genders in a farming community. Students are also involved in different extension activities of the college for mobilizing the farming community.

#### 6.4.6. Supervision of students in PG programme

Sl. No.	No. of eligible faculty for guidance	Intake capacity	Faculty/student ratio
1.	4	5	0.8

The department had started the M.F.Sc. in Fisheries Extension programme in 2010. Five faculties in the department have Ph.D. and are well qualified and eligible (Annexed below) for guiding the students as per the ICAR norms.

S. No.	Name of Faculty	Designation	Qualification	Area of Specialization
1.	Dr. J.K. Chauhan	Professor	Ph.D. (Agril. Extension)	Agril. Extension
2.	Dr. A.D. Upadhyay	Associate Professor and Head	Ph.D. (Agril. Economics)	Fisheries Economics and Marketing Management
3.	Dr. Biswajit Lahiri	Associate Professor	Ph.D. (Agril. Extension)	Farm information Communication
4.	Mr. Y Jackie Singh	Assistant Professor	B.F.Sc., M.F.Sc. (Fisheries Extension)	Fisheries Extension
5.	Dr. P. Pal	Assistant Professor (SS)	Ph.D. (Agril. Statistics)	Agricultural Statistics
6.	Dr. Amitava Ghosh	Assistant Professor	B.F.Sc., M.F.Sc., Ph.D. (Fisheries Extension)	Media mix and Audience Research, Livelihood impacts and Gender Studies

Sl. No.	Name of faculty	Post held	Highest qualification	Teaching/ Work experience (in years)	Honors and awards	No. of students guided (PG/Ph.D. separately)	No. of Publications in NAAS rated journals
1	Dr. Jitendra Kumar Chauhan	Professor	Ph.D.	31 years	06	PG-	Research Paper – 95
2	Dr. A.D. Upadhyay	Associate Professor	Ph.D.	25 Years	03	-	Research Paper – 72

3	Dr. Biswajit Lahiri	Associate Professor	Ph.D.	14 years	06	PG-01	Research Paper – 25
4	Mr. Y. Jackie Singh	Assistant Professor	M.F.Sc.	9 years	04	PG-06	Research Paper – 23
5	Dr. Prasenjit Pal	Assistant Professor	Ph.D.	9 years	02	-	Research Paper – 64
6	Dr. Amitava Ghosh	Assistant Professor	Ph.D.	4 Years	10	PG-01	Research Papers- 29

### List of Students Awarded M.F.Sc. (Fisheries Extension) Degree (2016-2020)

S. No.	Name	Title of Thesis	Year
1.	Ms. Bonani Laskar	Ornamental Fish Marketing and Consumers' Preference Behaviour: A Study In West Tripura	2016
2.	Ms. Indrani Sah	Impact of Fishery Based Self-Help Groups on Empowerment of Rural Women in Jashpur District of Chhattisgarh	2017
3.	Mr. Rajsummer Ijardar	Influence of MGNREGA on Aquaculture: A Case Study in West Tripura	2017
4.	Mr. Nongthobam Dorendro Singh	Status of Fish Based Integrated Farming in West Tripura: A Micro Level Study	2017
5.	Mr. Rupan Pegu	Paddy cum Fish Farming System of Assam: A Pattern Analysis	2017
6.	Mr. Mudada Dibyanath	Fishers' Risk Perception and Adaptation Strategies to Climate Change in Coastal Region of Southern Odisha	2017
7.	Mr. Kashyap Borah	Communication Behaviour of Fish Farmers in West Tripura: A Case Study	2018
8.	Mr. Oinam Naresh Khuman	Adoption of Scientific Fish Farming of Pengba ( <i>Osteobrama belangeri</i> ) by the Fish Farmers in the Valleys of Manipur	2018
9.	Mr. Chakrapani Pegu	An Empirical Study on Fishermen's Cooperative Societies in Tripura	2018
10.	Mr. Somlang Tesia	Perception of Fishers on Fish Diversity and its Conservation in Dumboor Reservoir of Tripura	2019
11.	Ms. Toko Yemin	A Study on MGNREGS - Aquaculture Convergence in Tripura	2019
12.	Ms. Sajina	Linkage among Researchers, Extension Personnel & Fish Farmers in the Valleys of Manipur	2019



13. Mr. Wandame Niangti	A Study on Training Need Assessment of Fish Farmers in West Garo Hills and Ri-Bhoi Districts of Meghalaya	2020
14. Mr. Bikash Shil	Adoption Behaviour of Fish Farmers on Scientific Fish Culture Practices of Pabda Fish ( <i>Ompok bimaculatus</i> Bloch, 1794) in Tripura	2020
15. Mr. Shiba Prasad Debbarma	A Study on Job Satisfaction of Fisheries Extension Professionals in Tripura	2020

#### 6.4.7. Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

The passed out Post Graduate students of department of Extension and Social Sciences have expressed their satisfaction on the various theoretical as well as field-based work they have rendered during their curricula. The practical based learning, uses of ICT and field exposure during course work and survey and data collection have enabled their skills with descent contribution in their future carrier. The UG students of other University who joined PG programme in Fisheries Extension have been impressed with facilities, infrastructure and keen interest of faculties in nurturing their knowledge, skill and personality. Through the research programme of PG student several social issues related to Fisheries of North Eastern Region such as technology adoption behaviour of the farmers, sources of information for fish farmers and their utilization pattern, assessment of training need of farmers and officials of line department, women participation in fisheries, impact of MG NREGA on Aquaculture of NEH region, ITK in fisheries, role of SHGs/Cooperatives in Fisheries, fish based integrated farming system, Job Satisfaction of Fisheries Extension Professionals etc. have been addressed. The department has conducted an impact assessment of PFC sponsored vocational training programmes as well as took feedback from the participant of other categories, viz. rural youths, extension functionaries, practicing farmers etc. towards effective designing and delivery of similar future programmes. Further, the specialized Online UGC NET-Preparatory Sessions have been well appreciated by the PG (Fisheries Extension) students during the time of pandemic.

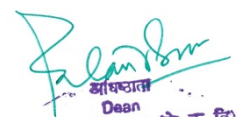
#### 6.4.8. Student intake and attrition in the programme for last five years

Name of the degree programme	Actual student admitted in the last five years					Attrition (%)				
	2016-17	2017-18	2018-19	2019-20	2020-21	2016-17	2017-18	2018-19	2019-20	2020-21
M.F.Sc. (Fisheries Extension)	5	4	4	5	5	40%	25%	25%	20%	0%

#### 6.4.9 ICT Application in Curricula Delivery

The department has a dedicated classroom with modern tools. Lectures are delivered using computer projected PPTs. ICT application are applied in form of online classes delivered via media like G-Meet, Skype are taken. The students are provided online materials for self-preparation.

I, **Prof. Ratan Kumar Saha** the Dean, **College of Fisheries, Lembucherra**, hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

  
Dean  
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**Signature of Dean of the College with Date & Seal**