JharCoFS

e-Newsletter 2022
College of Fisheries Science
Birsa Agricultural University, Ranchi, Jharkhand
Jashpur Road, Gumla – 835207

MESSAGE FROM VICE CHANCELLOR

I am glad that the College of Fisheries Science, Gumla, is publishing the e-newsletter. Documenting their achievements will be very useful, and students will also show their talents by recording their extra-curricular activities. Finally, I congratulate Associate Dean and his team for this endeavours.

Vice Chancellor, BAU

MESSAGE FROM DEAN

I congratulate the Associate Dean and his team for publishing the College of Fisheries Science, Gumla e-newsletter.

Dean
Faculty of Veterinary Sciences & AH, BAU

MESSAGE FROM EDITORIAL TEAM

It’s our pleasure to produce the 1st e-newsletter of the College of fisheries Science, Gumla. The newsletter will provide a platform to show our developments, seek suggestions from the fisheries fraternity, and give a page to display the talent of our students. We congratulate all our students and colleagues for their effort to bring out this newsletter in a short period. We also request our fraternity to suggest bringing the College to the national level.

We invite your valuable suggestions.

Editorial team
ABOUT THE COLLEGE

College of Fisheries Science was started in 2017 as per the Government of Jharkhand Notification and is a constituent college of Birsa Agricultural University, Ranchi, under the Faculty of Veterinary sciences. The first batch of Bachelor of Fisheries Science was admitted on 14th August 2017. In the beginning, the College was functioning in the Ranchi Veterinary College campus and shifted to its building in Gumla in 2021.

Besides the Bachelor in fisheries Science, we also run the Diploma in Aquaculture (2 semesters) and Advance Diploma in Aquaculture (4 semesters). Till date, i.e. July 2022, fifty-four students have completed Bachelor in Fisheries Science and eight in Diploma and four in Advance Diploma, respectively.

The College has all the Departments and laboratories facilities per the fifth Dean’s committee recommendations.

Vision

• To be the Centre of excellence in fisheries education and research in the state of Jharkhand.

Mission

• To fulfil the demand gap for scientifically and technically sound human resources in the fisheries sector in the state of Jharkhand.

Goal

• To make the state of Jharkhand self-sufficient in human capital in the fisheries sector

Mandate

• To impart quality education in Fisheries Science
• To conduct basic and applied research on local problems for developing fisheries in the state.
• To undertake extension programs of fisheries extension education in the state.

Research Highlights

Students (2018-22) have completed some projects as part of their B.F.Sc curriculum. Projects completed were;

1. Evaluating bile acid-supplemented low protein high energy practical diets in *Cirrhinus mrigala* fingerlings.

   It was found a significant increase in growth performance and lipid utilization in fish than the non-supplemented counterparts.


   It was which revealed that the liquid fertilizer made from the fish waste enhanced the plants growth in terms of plants height and fruiting in comparison to control.

3. Effect of beetroot powder as natural colouring agents in fish sausage.

   It was found that incorporating 3% beet root powder in fish sausage improves the colours, texture, taste and storage stability of fish sausage.

4. A study of Physico-chemical water parameters and diurnal Phyto-zooplanktons concentration of selected fish ponds in Gumla, Jharkhand.

   It was observed no significant fluctuations in the Physico-chemical parameters of water and reported the dominance of zooplanktons, mainly *Cyclops*, in the fish ponds.


   The findings revealed highest (p<0.05) weight gain, specific growth rate, protein efficiency ratio with lowest feed conversion was found in 1% PSM fed group in comparison to control (without PSM), 0.5% PSM and 2% PSM provided groups.

6. A study on Physico-chemical parameters of fisheries resources in Gumla District

   In this report overall water quality parameters (Temperature, D.O., CO₂, Total hardness, Total alkalinity, TDS, Transparency, Total nitrogen, Phosphate and pH) were studied and found it is within the optimum recommended range for aquaculture practices.
**Extension Programme**

**Training**

The college has organized three days training programme on “Value addition to fishes for rural women under the Tribal Sub-Plan project of ICAR-CIFT since 2nd March 2022. The training aims to develop skills in preparing value-added products from fish and entrepreneurship development from the value-added product of fish among rural fisherwomen and youth. Fisherwomen from different districts of Jharkhand participated in this training programme. The participants learned to prepare value-added products like fish-pickle, fish-cutlet, fish-momos and paneer. Five training programmes have been conducted in which 130 farmers have been trained. Mr. Sushant Gaurav, District Commissioner, Gumla, was the chief guest of the valedictory session in one of the training programmes. He appreciated the activities and wished that some farm women should come up as entrepreneurs in this field.

**Demonstration**

A demonstration programme was conducted near Ramrekha reservoir, Longepani, Simdega district of Jharkhand on 4th June 2022, where thirty fish farmers participated and learned to prepare the liquid fertilizers from the waste of the fishes.

**Important Events**

**Fresher and Farewell celebration:**

It was celebrated on 6th December 2021; Mr BhusanTirkey, Hon’ble MLA, Gumla, was the chief guest of the occasion. Newly enrolled students were welcomed, and pass-out students were felicitated by their immediate seniors and juniors.

**State Level Pre-Republic Day Camp:**

It was organized at Patna on 21st October 2021 and Mr Nishant Kumar, a student of batch 2019-23, participated in this event.

**Clean India Programme:**

It was organized on 28th November 2021. All the students participated in this event and cleaned the college campus and nearby areas.
Surya Namaskar Programme:
It was organized on the occasion of Makar Sankranti (14th January 2022), and students and teachers of the College participated.

Jharkhand Sthapna Diwas:
Celebrated on 15th November 2021, in which students delivered a speech about the freedom fighter, Bhagwan Birsa Munda.

Ganesh Chaturthi:
The students and teachers celebrated Ganesh Chaturthi in College on 10th September 2021.

Christmas gathering:
The pre-Christmas gathering was held at College on 23rd December 2021. All the teachers and students participated in this function.

Holi, the festival of colours:
It was Celebrated on 13th March 2022. All members of CoFS, Gumla, participated and enjoyed it.

Sarhul Celebration:
It is the festival of “Worshiping Nature” and is very famous among tribal peoples of Jharkhand. We also celebrated this auspicious festival at our college campus on 4th April 2022.

Prakram Diwas:
Celebrated the occasion of Neta Ji Subhash Chandra Bose Jayanti (23rd January 2022) in which an Essay Writing Competition on the topic “Contribution of Neta Ji Subhash Chandra Bose in freedom struggle” was organized.

National Girl Child Day:
Celebrated on virtual mode (24th January 2022) in which Mrs Rewati Hansda, FEO (Khunti), shared her experiences.

Fish Migration Day:
The day was celebrated on 21st May 2022 in virtual mode by students. During the programme, students mainly focused on problems in oceanic animals due to the increase in technology and the human population with the help of poems, speeches and poster presentations. The Chief Guest of the programme was Cyr Couturier, Director, Ocean Institute, Memorial University, Newfoundland, Canada also gave his speech on a solution to the threat and problems of fish migration. Elena Cebrian Alfaya, event manager for World Fish Migration Day, was also present during the programme.
**World Environment Day:**
It was Celebrated on 5th June 2022 by organizing Poster making competition and a campus cleanliness drive. On this occasion, students and teachers planted various plants to make the campus environment pollution accessible.

**National Fish Farmers Day:**
On 10th July 2022, it was celebrated in virtual mode. On this occasion, the college students discussed the problems in Indian Freshwater Aquaculture and possible solutions.

**International Yoga Day & Blood donation camp:**
It was celebrated on 21st June 2022. On this occasion, different asanas of yoga were performed like Padmasan, Dhanurasan, Chakrasan Pachimotasan, Anulom-Vilom, Bharmani, Surya Namskar etc.

Forty units of blood were donated by students, teaching and non-teaching staff of this College.

**Important Visitors**
1. Dr. J.K. Jana, DDG (ICAR) & Dr. Praveen Kumar ADG (ICAR) & Dr. P.Kaushal VC (BAU) visited college on 17th Sept 2018.

2. Mr BhusanTirkey, Hon’ble MLA, Gumla visited on the occasion of Farewell of (2017-21) pass out students on 6th December 2021.

3. Dr Onkar Nath Singh, Hon’ble Vice-Chancellor, Birsia Agricultural University, Kanke, Ranchi, visited College on 17th February 2022 to discuss the problems and further development.
4. Mr Abubakar Siddiqui, Secretary of Agriculture, Animal Husbandry and Cooperative, Govt. of Jharkhand, visited College on 19th February 2022 and made necessary recommendations for development.

5. Dr H.N. Dewidi, Director, Fisheries, Govt. of Jharkhand, visited College on 19th February 2022 and made necessary recommendations for development.

6. Mr Sushant Gaurav, District Commissioner, Gumla and Mr Rajeev Kumar, Ex-Director of Fisheries, visited on 4th March 2022 to have an idea of the College and its future development.

7. Dr. Anil Kumar Puniya, Principal Scientist (Dairy Microbiology), National Dairy Research Institute, Karnal, visited as Peer Review Team (PRT) for accreditation of the College on 8th April 2022.

8. Shri Purosattam Rupalaji, Hon’ble Minister of Fisheries, Animal Husbandry and Dairying, Govt. of India, Shri Mahesh Poddar, Hon’ble Member Rajya Sabha, Shri Sudarshan Bhagat, Hon’ble Member Lok Sabha and Dy. Commissioner, Gumla visited College on 14th April 2022.
9. Dr. Tapas Kumar Ghosh, Professor, Department of Aquaculture, College of Fisheries, WBUAFS, Kolkatta, visited College on 30th April 2022 and addressed the students.

10. Dr. Muruli S., Scientist, NBFR, visited College and interacted with students on 7th June 2022.

Visit of Shri Parshottam Rupalaji, Hon’ble Minister of Fisheries, Animal Husbandry and Dairying, Govt. of India

Achievements

1. Out of 25th students (2017-21), 17 have qualified in the National level entrance test of the Indian Council of Agricultural Research, 2021 for Post-Graduation.

2. Mr Pratap Kumar, the student of 1st batch 2017-21, is currently working as a young professional in the Faculty of Forestry; BAU, Ranchi and Miss Madhu Kumari in Fish Farmers Training Centre, Shalimar, Ranchi, Jharkhand.

3. Miss Priyanka Kumari (2018-22) has been selected by the Research and Development Department of Godrej Agrovet Pvt. Ltd. at Vijayawada Centre, Andhra Pradesh.

4. Miss Payoja Mohanty presented her paper on the 1st Indian Fisheries Outlook organized by Professional Fisheries Graduate Forum and ICAR-CIFRI from 22nd – 24th March.

Publications

Manuals:

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Laboratory manual on food chemistry</td>
<td>Dr Swarnadyuti Nath</td>
</tr>
<tr>
<td>2</td>
<td>Laboratory manual on Freezing technology</td>
<td>Dr Swarnadyuti Nath</td>
</tr>
<tr>
<td>3</td>
<td>Laboratory manual of Fish biotechnology</td>
<td>Mr Deepak Agarwal</td>
</tr>
<tr>
<td>4</td>
<td>Practical Notebook on Fin Fishes</td>
<td>Dr Sarvendra and Dr Deepak Agarwal</td>
</tr>
<tr>
<td>5</td>
<td>A Manual on statistical methods</td>
<td>Dr Irfan Bhatt and Dr Shweta Kumari</td>
</tr>
<tr>
<td>6</td>
<td>Practical manual of statistical methods</td>
<td>Dr. Irfan Bhatt</td>
</tr>
<tr>
<td>7</td>
<td>Practical Notebook on soil and water analysis</td>
<td>Mr Om Pravesh Kumar Ravi, Dr Shweta Kumari and Dr Sarvendra Kumar</td>
</tr>
<tr>
<td>8</td>
<td>Practical Notebook on meteorology, climatology and geography</td>
<td>Dr Om Pravesh Kumar Ravi, Dr Shweta Kumari and Dr Sarvendra Kumar</td>
</tr>
<tr>
<td>9</td>
<td>Practical Notebook on principles of aquaculture</td>
<td>Dr Irshad Ahmed</td>
</tr>
<tr>
<td>10</td>
<td>Practical Notebook on fundamentals of microbiology</td>
<td>Mr Bhartendu Vimal and Dr Sarvendra Kumar</td>
</tr>
<tr>
<td>11</td>
<td>Practical manual on fish canning technology</td>
<td>Dr Jagpal</td>
</tr>
<tr>
<td>12</td>
<td>Practical Notebook on fishing craft technology</td>
<td>Dr Jagpal</td>
</tr>
<tr>
<td>13</td>
<td>Practical Notebook on fishing gear technology</td>
<td>Dr Jagpal</td>
</tr>
<tr>
<td>14</td>
<td>A Practical manual on aquaculture engineering.</td>
<td>Dr Jayraj P</td>
</tr>
<tr>
<td>Sl.</td>
<td>Title</td>
<td>Authors</td>
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<tr>
<td>15</td>
<td>Practical Notebook on fish nutrition and feed technology</td>
<td>Mr Prasanta Jana</td>
</tr>
<tr>
<td>16</td>
<td>Manual of fish nutrition and feed technology</td>
<td>Mr Prasanta Jana</td>
</tr>
<tr>
<td>17</td>
<td>Practical manual on Fish genetics and breeding</td>
<td>Mr K. S. Wisdom and Dr Rupam Sharma</td>
</tr>
</tbody>
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**Booklet:**
- Career Opportunities in Fisheries Science by Shweta Kumari, Om Pravesh Kumar Ravi.
- मछलीयों से मुल्यवर्धित उत्पाद, डॉ. जगपाल, ओम प्रवेश कुमार रवि एवं स्वेता कुमारी

**Leaflets:**
- मछली पालन हेतु जल की गुणवत्ता के प्रमुख मानक एवं प्रबंधन, ओम प्रवेश कुमार रवि एवं स्वेता कुमारी
- पंगोशियस पालन के लिए पुर्णसंभारण जलकृषि प्रणाली, गुलशन कुमार, प्रशंसा जाना एवं ज्ञानदीप गुप्ता
- कम लागत की तकनीकी से समस्यावर्धित मछली पालन में ऑप्टिमाजन का प्रबंधन, डॉ. जयराज ची. एवं हरि ओम वर्मा
- बायोप्लॉक तकनीकी से मत्स्य पालन, हरि ओम वर्मा

**Appointments:**
- Mr. Stanzin Gawa, Assistant professor–cum–Jr. Scientist, Department of Fisheries Economics.
- Mr. Mannmohan Kumar Assistant professor–cum–Jr. Scientist, Department of Aquaculture.
- Mr. Rahul Kumar Singh, Asst. Lirarian.
OUR BRAND AMBASSADORS (2018-2022)

Jaya Bhargav
Navin Kumar
Jishu Banerjee
Aradhna Kujur
Rajiv Ranjan
Puja Kumari Sinha
Shiv Kumar Yadav
Manish Kujur
Zayeema Karim
Onkar Kr. Mahto
Aditi Kumari
Priyanka Marandi
Md Tausique Raja
Priyanka Kumari
Soumi Laha
Namrata Kumari
Sink Kumari
Prabhat Suman
Nikita Kumari
Nidhi Pandit
Sangeeta Beck
Pranay Kr. Rai
Mahesh Sharma
Sugandh Minz
Rishal
OUR BRAND AMBASSADORS (2017-2021)

Bijay Kumar Gupta  Shalini Sundi  Anoop Kr. Bhagat  Sunny Prakash Gari  Kajal Kumari
Suraj Kumar  Diwakar Kumar  Anurag Singh  Madhu Kumari  Sushant Sagar Kujur
Kisun Soren  Nikita Viswas  Rashmi Tirkey  Varsha Kumari  Md. Shadab Alam
Pratap Kumar  Ranju Kumari  Chandan Kr. Rajak  Prerna Sinha  Raj Nandani Raj
Sanjeev Kr. Singh  Prashant Ranjan  Swati Kachhap  Ankit Kumar  Rinki Kumari
FROM PRINT MEDIA

Published by: Dr. M.S. Mallik, Principal Investigator, NAHEP (CAST), Birsa Agricultural University, Ranchi