

## **Report of hands-on-training program on ‘Advances in Integrated Fish Farming Systems’ for UG students of SNS college, Motihari**

A seven days' hands-on-training program on '*advances in integrated fish farming systems*' was organized during 03-07 June & 10-11 June 2024 at ICAR- MGIFRI, Piprakothi for the undergraduate students of Industrial Fish and Fisheries of Sri Narayan Singh College, Motihari. A total of 31 students participated in the training program. In training, a total of 20 lectures (theory & practical) were organized in 14 sessions. The training program was mainly focused on practical oriented learning about integrated fish farming systems under flood prone/ flood affected ecosystems, and entrepreneurship development among educated youth through fish farming & allied activities. Students were oriented about the integrated fish farming systems, waterlogged/ flood prone/ flood affected ecosystems, land shaping, pond design/ shape/ size and construction etc. They were made aware about fish species identification/ selection/ stocking and fish feed/ health management etc. They were taught with detail explanation and live demonstration of various fish-based IFS models like fish-cum-poultry, fish-cum-poultry-duck-horticultural crops, fish-cum-goat, rice-cum-fish farming etc. Students were actively involved in all the practical sessions like estimation of important water/ soil quality parameters like pH, EC, dissolved oxygen, temperature, total alkalinity, total hardness, free carbon dioxide, and milk sample analysis etc. Two guest lectures were organized on fish processing and fish feed formulation for the entrepreneurship development among students/ youth, in which practical demonstration of making fish cutlet and fish feed from locally available resources was carried out. Also, they were made acquainted with various laboratory equipments/ apparatus, machineries, chemicals required in different laboratories. A special session was organized on farm-waste resource recycling through composting/ vermi-composting. Pre-training and post-training test results of the participants indicated significant impact of the training, and as per the participants' feedback several new things they have learnt/ experienced during the training program. The training program was successfully coordinated by Mr. Ravi Kumar, Scientist (Fisheries Resource Management) and Dr. PK Bharti, Sr. Scientist (Livestock Production and Management).



Group photo: resource persons & participants



Estimation of important water/  
soil quality parameters



Fruit processing: making  
papaya jam



Exposure of farm machineries



During theoretical classes



Exposure of MGIFRI research  
farm



Fish processing: making fish-cutlets



**Source: ICAR- MGIFRI**

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