



### CEER Summer School 2024

Date: 20<sup>th</sup>– 22<sup>nd</sup> April 2024

Location: AFU, Rampur Chitwan

**Project title:** Establishing the Circular Economy-based Livestock Sector through Collaborative Educational and Research Activities (CEER)

**Project Partners:** Nord University, Norway, Kathmandu University Nepal, and Agriculture and Forestry University, Nepal

**Project funding:** International cooperation and quality enhancement in higher education (HK-dir) under (NORPART) and the Norwegian Ministry of Education and Research and Ministry of Foreign Affairs.

Project site: <https://site.nord.no/ceer>

#### Program Outline:

Day 1 (workshop: Insects, Snails, and SCPs as food and feed)			
Hours	Session	Details	Remarks
<b>9:00 – 10:00</b>			
<b>Breakfast</b>			
10:00- 10:30	Project	Introduction to the Project	Assoc. Prof. Prabhat Khanal
10:30-11:00	Insects, Snails and SCPs	Snails as food and feed	Dr. Chet Raj Pathak
11:00-11:15		SCPs as food and feed	Pallawi Sharma
11:15-12:30		BSF rearing, life cycle, and feeding substrate	Aarati Upreti
12:30-13:00		Insects as alternative feeding resources	Bhola Gautam
<b>12:00 – 13:00</b>			
<b>Lunch</b>			
13:00- 14:00	Group work	Potentials and challenges of insects, snails and SCPS as food and feed	
14:00-14:30	Insect production and safety	Chemical safety in insects reared for feed or food applications	Assist. Prof. Rudra Upreti
14:30-14:45		Rearing density: Does it matter in BSF?	Nisha Kharel
14:45-15:00		Mealworms as an alternative source of feed	Akash Gupta
<b>Coffee Break</b>			
15:00-17:00	Demonstration	BSF demonstration at AFU	Tika Ram Bagale and Anup Ghimire
<b>Day 2 (Aquatic bioresources as food and feed and stakeholders' perspective)</b>			
<b>9:00-9:30</b>			
<b>Breakfast</b>			
9:30-10:00	Project	Updates on project activities at KU	Prof. Bed Mani Dahal
10:00-10:30	Project	Project presentation	Assoc. Prof. Sundar Tiwari
10:30-11:00	Aquatic bioresources	Aquatic bioresources as feed	Dr. Rabin Acharya
11:00-11:30		Aquatic plants-based Traditional Food Habits in Nepal	Prof. Sunila Rai
11:30-11:45		Aquatic plants: Nutritional values	Nar Bahadur Thapa
11:45- 12:00		Three aquatic plants (Water Spinach, Water hyacinth, and Duckweed) as sustainable feeding resources for animals.	Navin Ghimire
<b>12:00-13:00</b>			
<b>Lunch</b>			
13:00-14:00	Group work	Potentials and challenges of Aquatic bioresources as food and feed	
14:00-14:30	Prospects for Alternative Feeding Sources	Unlocking potential: Harnessing Invasive Apple Snails as Multi-Functional Assets in Organic Rice Cultivation for Feed, Food, and Weed Management-Insights from Global Experience	Dr Ravindra Chandra Joshi
14:30-14:45		Socio-economic perspective of alternative feeding resources	Karishma Subedi
14:45-15:00		Feeding impacts on poultry microbiome	Dr Wang Pakhrin
<b>Coffee Break</b>			
15:00 – 17:00	Demonstration	Demonstration of Snails and Aquatic bioresources from Chitwan	Nar Bahadur Thapa, Dr. Chet Raj Pathak with Involvement of Tharu Student Samaj
<b>Day 3 (workshop: Feed industry perspective in alternative feed sources and field visit)</b>			
<b>9:00-10:00</b>			
<b>Breakfast</b>			
10:00- 12:00	Farm Visit	Farm1: Fulbari Organic Farm (BSF)	Chandra Prashad Adhikari
<b>12:00-13:00</b>			
<b>Lunch</b>			
13:00-17:00	Farm Visit	Farm2: Madi Organic Farm (Integrated farm)	