



Integrating Talent Development into
Innovation Ecosystems in Higher Education

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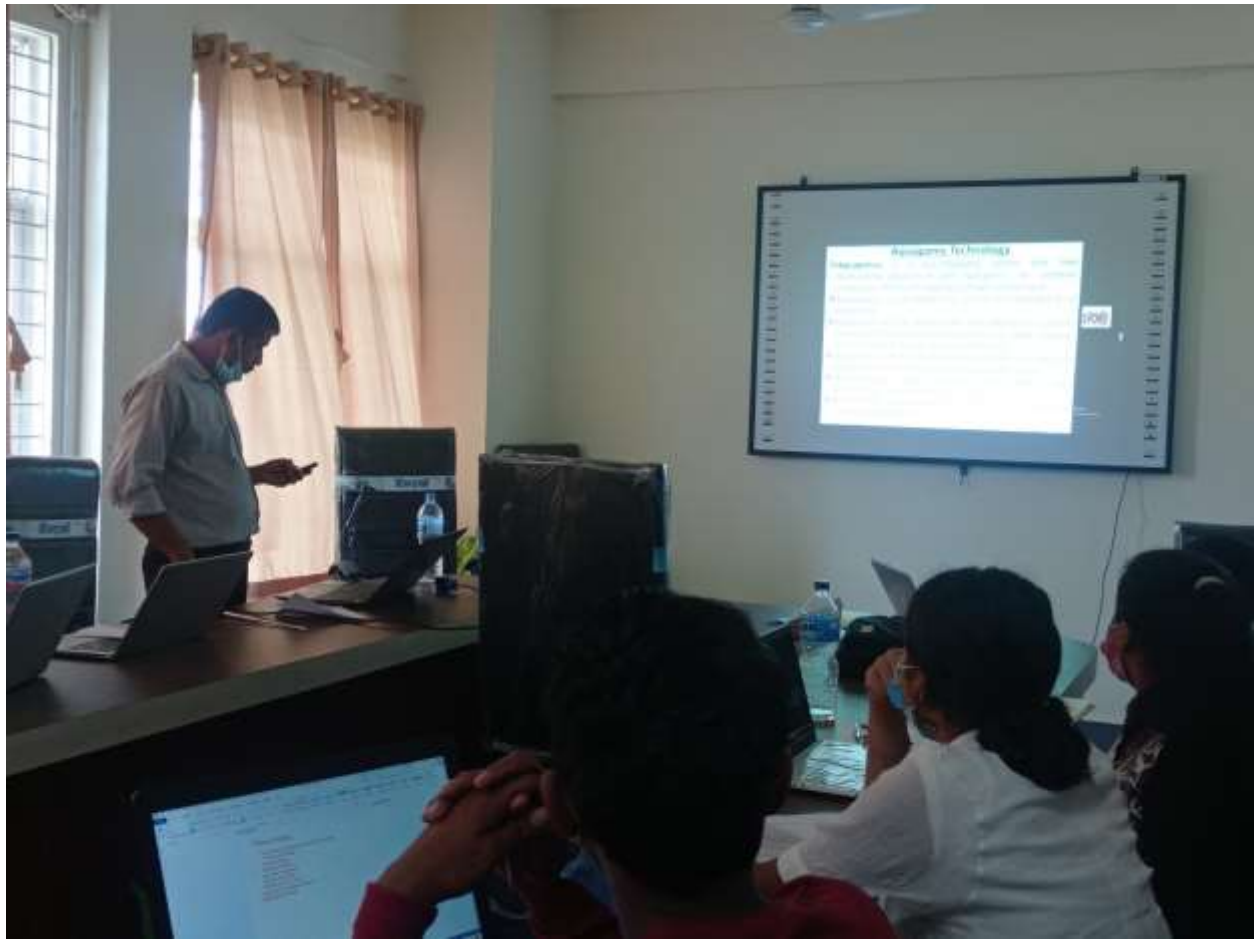
COLLABORATIVE PROJECT DEVELOPMENT ON AQUAPONICS

IN CHITWAN

In technical collaboration
with Integrated Agriculture
and Forest Company Pvt.
Ltd.

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Aquaponic Technology

- ❖ Aquaponics is a bio-integrated system that links recirculating aquaculture with hydroponic for combine production of fish and vegetable, flower, and/or herb
- ❖ Aquaponics can be worked as model of sustainable food production.
- ❖ Integration of the aquaculture and hydroponic systems creates a constant nutrient production and uptake balance, and use of waste during aquaculture farming
- ❖ Aquaponic is better than Hydroponic (take nutrient from fish feed and solid fertilizer is much more affordable)
- ❖ Nitrosomonas (convert ammonia into nitrites) and Nitrobacter (convert nitrites into nitrates).
- ❖ While nitrite is still harmful to fish due to its ability to create methemoglobin (reduce DO)



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