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Integrating Talent Development into Innovation Ecosystems in Higher Education
586227-EPP-1-2017-1-BG-EPPKA2-CBHE-JP

FINAL DISSEMINATION WORKSHOP ON
Achievements and Sustainability Plan of INNOTAL
Project

ORGANIZED BY

Directorate of Research and Extension, AFU and INNOTAL
September, 2021



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September 27, 2021

About the project



Co-funded by the
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About the project INNOTAL

The project "Integrating Talent Development into Innovation Ecosystems in Higher Education - INNOTAL" is implemented in the framework of the *Erasmus+ Programme, KA2 Capacity Building in Higher Education*. The duration of the project is 36 months, starting from 10/2017 and ending in 10/2020.

INNOTAL project objectives

The project seeks to build the capacity of the participating Universities to ensure graduates' employability and develop students' talent by encouraging collaboration with external organizations (industry, public sector and community) and by providing opportunities for students to actively participate in such cooperation.

Erasmus+ is the European Union Programme in the fields of education, training, youth and sport for 2014 - 2020. The action "Capacity Building in Higher Education" contributes to the modernization and internationalization of higher education in the Partner Countries.





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The period of implementation of the project is from October 2017 till October 2020 (extended by 1 year to October, 2021)

The project is supported by the European Union's Erasmus+ Programme - Capacity Building in the field of Higher Education

The project consortium consists of 4 European Universities – from Bulgaria, Greece, Finland and the UK, 4 Universities from India, 2 Universities from Nepal, 2 Universities from Sri Lanka and 2 Universities from the Philippines.

Who we are (INNOTAL Partnership)



University of National
and World Economy,
Bulgaria



European Center for Quality
from the idea to the result



University of Thessaly,
Greece



Benguet State University, the
Philippines



Ifugao State University, the
Philippines



University of Applied Sciences,
Finland



University of Ulster,
UK



University of Ruhuna,
Sri Lanka



University of Peradeniya,
Sri Lanka



University of Hyderabad,
India



Pokhara University,
Nepal



Agriculture and Forestry University,
Nepal



Dr. Babasaheb Ambedkar
Marathwada University, India



University of Madras,
India



RK University,
India

Objectives of the workshop

- To introduce the objectives and activities of the INNOTAL project,
- To disseminate the achievements and sustainability plan of INNOTAL project among the external stakeholders,
- To collect feedbacks from external holders on this initiative of the university, Talent co-creation lab, Sustainability plan and action plan; and employability enhancement strategies



This project was building the capacity of our University to ensure graduates' employability and the development of students' talent.

By encouraging University collaboration with external organizations (industry, public sector and community) and by providing opportunities for students to actively participate in such cooperation.

The idea is to combine a traditional focus on developing the entrepreneurship & innovation skills of students through teaching, with a more innovative focus on promoting research and innovation collaboration among faculty, students and external organizations.

Objectives and approaches....

Approach 1: Improved strategy for ensuring student employability

Approach 2: Talent Co-Creation Lab

Approach 4: Student Volunteering Center

Approach 5: Online platform

What are the INNOTAL Project activities that can benefit external organizations?

Activity 1:

Improved strategy for ensuring student employability

The participating universities will draft coherent strategies for improving graduates' employability and making the education they provide more relevant to the needs of society and industry.

Activity 2:

Talent Co-Creation Labs at each participating university – a shared space bringing together the University and external organizations

The Labs will be fully equipped and their work will be coordinated by University staff. Students will be able to participate in the implemented innovation projects and trainings together with faculty.

Activity 3:

Student Community Service and Volunteering Center at each participating university

The Centers will collaborate with non-profit and community organizations in order to create opportunities for student volunteering.

Activity 4:

Online innovation management platform dedicated to university cooperation with the external environment (OpenResearch E-Lab)

This platform will provide information and give access to new proposals and initiatives for collaboration.

Activities

- **WP1: PREPARATION -**
 - Selected staff for the project teams and the PMC;
 - Participated with 3 staff members in Collaboration Workshop 1;
 - Participated in the development of a screening report
 - Contributed to the mapping report on the conditions and determinants of graduates' employability for Nepal;
 - Developed a Priority Setting Report for its own institution

Activities.....

- **WP2: DEVELOPMENT -**

- Developed a draft framework for embedding graduates' employability into institutional performance for its own institution;
- consulted the draft framework and other upcoming project activities with 20 internal and 20 external stakeholders in the frame of 2 stakeholder consultation workshops;
- participated with 3 persons staff members in Collaboration Workshop 2;
- carried out stakeholder analysis and impact analysis for the introduction of the new approaches

Activities.....

- **WP3: DEVELOPMENT**

- Development of talent co-creation lab and students volunteering center
 - Developed implementation and quality assurance frameworks for Talent Co-Creation Lab and Student Community Service and Volunteering Centres
 - participated with 3 persons staff members in Collaboration Workshop 3;
 - initiated innovative Talent Co-creation Lab practices of developing student talent and promoting student employability

Workplan 3-development.....

- Launched at least 3 collaborative projects with the involvement of external stakeholders
- Organized 3 trainings in innovation or entrepreneurship for students in different disciplines;
- Involved nearly 100 stakeholders, students and staff in the testing and application of the E-Lab

Activities.....

- **WP4: DEVELOPMENT -**
 - Participate with 3 persons staff members in Collaboration Workshop 4;
 - participate with 3 staff members in Joint Training of Staff – Training of Trainers;
 - Students online training
 - Students business idea competition
 - organize training for 3 faculty members and 2 staffs

Activities.....

- **WP5: QUALITY PLAN**

- Organized the efficient collection of stakeholder feedback during events organized at the institution;
- organized 1 initial and 1 final Stakeholder Perceptions Survey and ensure the completion of at least 100 survey forms in each Survey campaign;
- contributed to internal evaluation of analyses, reports, trainings and events;
- contributed to prepare the interim and final internal evaluation reports;

Activities.....

- **WP6: DISSEMINATION & EXPLOITATION**
 - Disseminated the project and its results
 - Contributed to update of the project website;
 - Organizing and host one stakeholder workshop for dissemination purposes for at least 25 external stakeholders (this program)

SOME RESULTS

National Mapping Report



**Integrating Talent Development into
Innovation Ecosystems in Higher Education**

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**MAPPING REPORT ON THE CONDITIONS AND DETERMINANTS OF
GRADUATES' EMPLOYABILITY: NEPAL**

Work Package 1; Deliverable 1.3



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Current inefficiencies and gaps at University level



- Theory based entrepreneurship education and innovation training; lecture based teaching-learning process
- Ineffective student talent development activities
- Weak relations with external stakeholders
- Lacking proper career orientation (during and after degree)

Prioritized research and education areas

- Productivity and quality enhancement of agriculture, livestock, fishery and forestry to increase market competitiveness
- Cost, demand and supply analysis of agriculture fishery and forestry commodities
- Medicinal and aromatic plants, their domestication, production, value addition and trade
- Marketing of livestock; livestock product and value addition
- Increased productivity of indigenous plant and animal species and their adaptation to climate change
- Improvement of poor reproductive and productive performance of farm animals
- Disease identification, pathogen isolation and risk analysis of major animal diseases
- Small-scale and commercial fish farming leading to improved household nutrition and income
- Forest business, SMEs in forestry, value addition and livelihood

Current efforts

- Starting new academic programs on agribusiness management, dairy technology, seed science, agri-engineering
- Establishing science center in different geographical locations
- Approved branch colleges in 10 locations at different geographical areas (8 in operation)
- Students and faculty exchange with universities and training centers in China, Japan, Korea, Italy etc.
- Revising current curricula and minimizing weaknesses in to larger benefit of practices
- Formulation of national agriculture and forestry education policy
- Veterinary council is in function and proposed agriculture council
- Research assistantship to postgraduate students

Suggestions for increasing employability

- Develop institutional mechanisms in linkage with University's research programmes with the involvement of relevant stakeholders, including the potential users of research results

(eg the use of fund from Social Corporate Responsibility)

- Effective setting up field-based research stations in various strategic locations of the country to act as a link between the University (researchers, faculty members, students) and rural communities (in particular farmers and forest users) to meet the latter's research needs
- Strengthen the research capacity of faculty/researchers through appropriate short-, medium-, and long-term training and other capacity enhancing activities (e.g. participation in seminar, exchange visits, engaging in research activities in and outside the university system, etc.).

Suggestions.....

- Strengthen relations with national, regional, and international educational and or provocative organizations involving in research and extension activities as per collaborative efforts
- Increase support for the long term innovative research undertakings of the faculty and students (university, UGC, national and international institutions)
- Sharing the knowledge, innovation and technologies resulting from research at local and global levels through various types of publications and materials
- Strengthen comprehensive infrastructures (physical, laboratory, library/resource centre, farm, IT and other on- and off-farm research facilities) for research activities

Suggestions.....

Functional collaboration need to be established and strengthened

- Nepal Agriculture Research Council
- Ministry of Agriculture and Livestock Development
- Nepal Academy of Science and Technology
- Departments of Industry and cottage and industry
- Wood processing industry
- Poultry hatchery, feed and pharmaceutical industry
- Agriculture and forest based business companies
- Department of Agriculture, marketing and livestock services
- Floriculture Association of Nepal
- Other technical universities of the nation
- Prime Minister of Agriculture Modernization Project (for research as well)
- Non-Governmental Organizations and INGOs

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INNOTAL

Integrating Talent Development into
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UNIVERSITY PRIORITY SETTING REPORT FOR THE PROVISION OF
RESEARCH AND EDUCATION

AGRICULTURE AND FORESTRY UNIVERSITY, NEPAL

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Available online at www.afu.edu.np

**Process of Organization and Assessment of
Internships in Agriculture and Forestry
University and the needs for improvement**

University-Business relations

- The University makes contract with agricultural entrepreneurs in order to support the research and academic activity of students also in line with possible job perspective
- Veterinary colleges reach agreements with public and private livestock business for mutual benefit related to research and extension, mostly in poultry and dairy firms.
- Department dealing with agribusiness management and veterinary education send their students for project works in private companies (in personal contact)

Entrepreneurship education

- Current government strategies have been focussing on entrepreneurship education in Nepal in several ways, including: Opening of the Agriculture and Forestry University, establishing training centers, expansion of technical colleges etc
- Privatization of higher education in all the technical education faculties where otherwise the government alone cannot produce sufficient human resources
- Empowering the use of latest information and communication technologies in teaching and research.

Process of organization of internships, research and training

- In built on course-LEE, Veterinary internship, Student circle, Project work, field survey, animal health camp and plant clinics, market survey, entrepreneurship
- Responsible-Faculties, DOREX, Directorate of Continuing Education
- Fund management-internal, project based
- Trainings mainly from students voluntary organizations
- Research skill development through compulsory thesis research work at all levels of degree

Students training need in the field of innovation and entrepreneurship

Agriculture

- IPM, Propagation and tissue culture
- Seed production, processing and testing
- Orchard management and crop production training
- Nursery management
- Hydroponics
- Food processing techniques
- Post harvest training
- Short term training on poultry keeping, AI vermicomposting, bee keeping, mushroom, tissue culture

Students training need....

Livestock

- Animal source food processing and marketing (meat, milk egg)
- Feed formulation and quality control
- Reproduction techniques (large animals)
- Hatchery management
- Fisheries
- Animal disease diagnosis and treatment lab
- Techniques of animal selection, recording and breed improvement
- Commercial fodder production and processing

Students training need....

Forestry

- Wood seasoning
- Orchid plantation techniques
- Advance nursery related to agriculture and forestry
- Wood paving service
- Wood processing like plywood
- Herbal and NTFPs' production, processing and marketing

Priorities regarding students' internships and practical training

Practical Training

- Production technology /innovations
- Value additions of high value commodities
- Feed and fertilizers/ organic agriculture
- Integrated farming system
- Sugarcane, drug and bio-chemical processing technology
- Plant and animal clinics/ health camp
- Seed and food quality certification and processing techniques

Internship

- Need based and job oriented internship training- Natural resource management covering disciplines of livestock and forestry
- Market chain management and value additions
- Demonstration trial of crop varieties and animal breeds
- Agribusiness incubation center

Needs for improvement

- Internship, volunteering and and exposure with diverse and related stakeholder organization
- Enhancing government support system by prioritizing financial, technical and innovative need
- Enhanced internship through better coordinated system of related organization/ institutions

Talent co-creation lab at AFU



Talent co-creation lab.....

- Established on the premises of Directorate of Research and Extension
- Provides collaboration space for 30 students and stakeholders at a time

Major activities at the Talent Co-Creation Lab:

- Promoting collaboration and interaction of faculty and students with external organizations, focused at innovation
- Entrepreneurial trainings targeted at students and entrepreneurs / external organizations' employees
- Developing as innovation hub specially for agriculture and forest business ☐ Increasing linkage with external stakeholders

Major activities at the talent co-creation lab.....

- Supporting students' community service and volunteering activities
- Support faculty members/departments for teaching entrepreneurial courses
- Provide an evaluation platform for internship and other allied activities of the university
- Serving as a bridge for the functional integration of different farms, directorates and faculties working to support internship, innovation and outreach activities
- Provide a platform for curriculum development and feedback.

Talent co-creation lab.....

- AFU has designed a course (Agricultural Entrepreneurship Management) to be implemented at the Department of Agriculture Economics and Agribusiness Management.
- Carried out 3 students training at the lab
- Developed 3 collaborative projects on design of projects in the active involvement of selected entrepreneurs and students

Internal stakeholders workshop

Internal stakeholders' workshop...

Key priorities regarding an improved University strategy for promoting students' employability and talent

- Review and revision of university plan and strategy for promoting students' employability and talent
- Formation and mobilization of Interested Business Group (IBG) sub sector wise and problem-wise (lab, production, value chain upgrading and participatory market system)
- Grouping Interested Business Group into Research Focused Business (RFB) group, internship focused business group and volunteering business group
- Multi-stakeholder Business Platform (MSBP) alliance and financing

Internal stakeholders' workshop...

Activities to be planned for the Talent Co-Creation Lab and way of integrate this Lab into existing structures or future University development plans

- Research and technology development
- ICT, FM radio and television program
- Webinar and video conference
- Call centers (problem solving to farmers)
- Mobile Apps development
- Plant and animal clinic
- Trainings, demonstration and exhibitions
- Experience sharing programs

Internal stakeholders' workshop...

Students' training needs in the field of innovation and entrepreneurship

Agriculture

IPM, Propagation and tissue culture

Seed production, processing and testing

Orchard management training

Soil health camp

Nursery management

Hydroponics

Food processing techniques

Post harvest training

Short term training on poultry keeping, vermicomposting, bee keeping,

Livestock

Animal source food processing and marketing (meat, milk egg)

Feed formulation and quality control

Reproduction techniques

Hatchery management

Ornamental fish

Animal disease diagnosis

Techniques of animal selection, recording and breed improvement

Forestry

Wood seasoning

Orchid plantation techniques

Advance nursery related to agriculture and forestry

Wood parqueting service

Wood processing like plywood

Herbal and NTFPs' processing

External stakeholders workshop

Feedbacks from the stakeholders about the project and its results

1. INNOTAL project can contribute to the development of the capacity of universities in Nepal to promote graduates' employability and nurture talent to a large extent.
2. INNOTAL project can help strengthen cooperation between university and its external organization in the field of innovation to a large extent.
3. External organizations are interested in cooperating with the university and its students in innovation project.
4. INNOTAL project can help partly involve in business and the citizen sector in talent development and retention.

Feedbacks from the stakeholders about the project and its results.....

5. External organizations partly like to play a more central role in talent development at the university.

6. INNOTAL project can promote skills development among the future labour force in Nepal and make education more relevant to the needs of society and business.

7. External organizations are interested to a large extent on talent co-creation lab, research e-lab and student community service and volunteering center at AFU.

8. Most of the external stakeholders are interesting in participating in or contributing to upcoming project activities.

Strategies for embedding employability in operations of Agriculture and Forestry University

Current inefficiencies and gaps

- i. Shortfall of academic colleagues in key departments
- ii. Very small proportion of Master's degree and doctoral student engagement with industry / social challenges.
- iii. Limited number of courses and programs on entrepreneurship
- iv. Lacking short to long term entrepreneurial learning to broad mass of students and local farmers/entrepreneurs (can be encouraged through the DCE)
- v. Lacking agribusiness innovation hub
- vi. Teaching-learning process is mostly dominated by lecture methods
- vii. Relations with external stakeholders is at very initial stage
- viii. Lack infrastructures and other resource capacity for establishment of students' talent development activities

Feasible future improvements, measures and actions

- i) Increase the number of courses on entrepreneurship skill specially in bachelor level in long run
- ii) Increase agreement with business sector, NGOs, INGOs and government organizations for sending its students in internship, delivering guest lecturers from them to the students of university, and offering innovation trainings
- iii) Organize short to long term entrepreneurial courses and innovation trainings to students and young entrepreneurs through Directorate of Continuing Education of the university
- iv) Proper utilization and functioning of talent co-creation lab established under the support of INNOTAL project/EU
- v) Introducing entrepreneurship education and innovation training in more disciplines

Disciplines for introducing and strengthening entrepreneurship and innovation trainings

- **Agriculture:** Pest control, plant propagation, tissue culture; Seed production, processing and testing, floriculture, soil testing at farmers' level, nursery establishment, roof top farming, hydroponics, food processing and packaging, post harvest handling, vermicomposting, bee keeping, mushroom production, agro-tourism, vegetable production etc.
- **Livestock:** Animal source food processing and marketing (meat, milk egg), Feed formulation and quality control, Reproduction techniques, Hatchery management, Ornamental fish, Animal disease diagnosis, Techniques of animal selection, recording and breed improvement
- **Forestry:** Wood seasoning, Orchid plantation techniques, Advance nursery related to agriculture and forestry, Wood paving/parqueting service, Wood processing like plywood, Herbal and NTFPs' processing etc.

Involvement of stakeholders in employability strategy

- i) Employers from government and non-government organizations have their compulsory presence in Senate and other high level committees of the universities
- ii) External stakeholders are invited to participate in annual fairs, technical workshops, seminars, conferences, etc. where they can contribute with their suggestions to the quality upgrading of the university system.
- iii) Besides, they are always welcomed to provide constructive comments and suggestions to the universities.
- iv) They are playing important role in the quality improvement of the intern students working in their companies.

Some other feasible activities that the university can and shall do for employability:

- Providing small grants to selected students to conduct research at UG level
- Training students on technical skills necessary for conducting research
- Provide voluntary training package to students on hard and soft skills,
- Establishment of agribusiness incubation center (in long run)
- Formation and mobilization of Interested Business Group (IBG) sub sector wise and problem-wise (lab, production, value chain upgrading and participatory market system) and Research Focused Business (RFB)
- Involvement of employers in external quality assurance procedures in Higher Education, in particular in curriculum design (in workshops and meetings)
- Career guidance to be planned for higher education students during study and recent alumni (through like job fairs)

Some other feasible activities that the university can and shall do are listed as.....

- Use of graduate performance survey in their job
- Involvement of employers in external quality assurance procedures in Higher Education, in particular in curriculum design (in workshops and meetings)
- Policy lobbying for increasing the access and volume of loan to graduates for initiating own enterprise
- Revising the curriculum in periodic basis for updating the courses on entrepreneurship
- Conversion of Talent co-creation lab to Innovation Hub as separate functional unit in long run

Management of human resources

i) Paid the faculties and concerned staffs in overtime basis for their involvement in co-creation lab, or

Reduce the teaching load of faculties at least by 2 credit hours per semester

i) Reward the best faculties involved in such research and extension activities in annual basis

ii) Hire full time research faculties

iii) Use master and PhD level students as research and outreach assistants

Annual action plan in the lab

Year	Month	Schedule of the half day meeting and thematic group for the lab activities in the scope of the university	
		First Friday of the month	Third Friday of the month
2021	October	Agronomy	Animal science
2021	November	Horticulture	Veterinary science
2021	December	Agribusiness	Fishery
2022	January	Entomology	Forestry
2022	February	Pathology	Animal science
2022	March	Fertilizer and manures	Veterinary science
2022	April	Food processing	Fishery
2022	May	Biotechnology	Forestry
2022	June	Environmental conservation	Animal science
2022	July	Extension of agricultural technologies	Veterinary science
2022	August	Seed technology	Fishery
2022	September	Farm management	Forestry

Other provisions on annual action plan

- **Responsibility:** Seven membered post project management committee will be responsible for the conduct of two half day meetings in each month during two post project years.
- **No of participants:** Five students, seven committee members and five entrepreneurs of the respective thematic areas will be participants in each half day meetings.
- **Duration of discussion:** Four hours in each meeting

Other provisions on annual action plan.....

- **Modality of discussion and implementation**

Idea generation-feasibility analysis-prototype development-testing-lunching

- **Documentation and publication:** Each meeting's activity will be documented and published annually in the form of **Manual on yearly activities of the Talent Co-creation Lab.**

Identification of volunteering organizations

SN	Name of organization	Type of organization	Nature of volunteering opportunities
1	MADE Nepal	NGO	Learn and disseminate agricultural technologies
2	Nepal Hatchery Industry Association	NGO	Learn hatchery technology and parents care
3	Avinash Poultry	Private Company	Learn hatchery technology and parents care
4	FORWARD Nepal	NGO	Learn and disseminate agriculture technologies, help victims in natural calamities
5	Divya Hyatchery Pvt. Ltd	Private company	Hatchery technology
6	Annapurna Milk Corporation	Private company	Dairy technology and marketing
7	Nepal Egg Producers Federation	Traders Association	Hatchery technology and marketing

8	Nepal Grass producers' association	Producers association	Grass production, processing, marketing and animal welfare
9	Prerana livestock farm	Private company	Integrated Livestock management, Rabies control campaign, dairy processing
10	National Agrovet Center	Private company	Seed quality monitoring, marketing research, seed test
11	Bharatpur Metropolitan City	Government office	Help people in natural calamities, disseminate agriculture, livestock and forest related technologies
12	Integrated Agriculture and Forest Company Pvt. Ltd.	Private company	Hydroponics, Aquaponics, High density fish farming and fish marketing
13	Prime Minister Agriculture Modernization Project, Bee Zone, Chitwan	Government Organization	Modern bee hive construction, marketing, honey processing and bee research
14	Agriculture Knowledge Center, Chitwan	Government Organization	Disseminate agriculture technologies assess agricultural loss in natural calamities
15	Shree Agrovet Pvt. Ltd.	Private company	Marketing, collection and test the agriculture inputs and their quality

16	Nepal Agriculture Research Council	Government Organization	Research volunteering
17	Ministry of Agriculture Land Management and Cooperatives, Bagmati Province	Government organization	Volunteering on research and extension opportunities
18	National Maize Research Program	Government organization	Maize production, processing and marketing technologies related to seed
19	National Cattle Research Program	Government organization	Research and extension of technologies on dairy breeding and processing of dairy products
20	LIBIRD	NGO	Learn and disseminate agricultural technologies
21	District Poultry Producers Association	Traders Association	Meat, egg and hatchery management technologies
22	Agriculture Enterprise Center	NGO	Policy review, analysis and lobbying at local, provincial and national level
23	District Fruit and Vegetable producers and traders association	Traders Association	Learn grading, price variation, processing, loss reduction technologies,
24	District Forest Office	Government office	Natural forest products like wood, resin, herbs harvesting and processing

25	Floriculture Association of Nepal	Professional Society	Flower propagation, conservation, decoration and marketing technologies
26	SEAN seeds limited	Private company	Seed multiplication, processing and trade
27	Insurance companies	Private companies	Assess loss in calamities, research, publicize insurance campaign
28	District Chamber of Commerce and Industry	Traders Association	Facilitate trade fairs
28	Department of cottage and small scale industries	Government organization	Learn processing of fruits, vegetables, oilseeds and cereals
29	Unnati Seed producers' Association, Patihani, Chitwan	Farmers group	Production technology on seed of rice, maize and wheat, their processing and marketing
30	Aadhar Nursery, Chitwan	Private company	Propagation techniques of high value crops
31	Livecare Pharmaceuticals	Private Company	Production and marketing techniques of animal additives, plant protection chemicals, hormones etc.

Sustainability plan

Formation of project management committee

- Director, DOREX-----Chair
- Head of the Department, Department of Agribusiness Management-----Member
- Director, Directorate of Students Welfare-----Member
- Account officer, DOREX-----Member
- A teacher from the Faculty of Agriculture-----Member
- A teacher from the Faculty of Animal science, Veterinary and Fishery-----Member
- A teacher from Faculty of Forestry-Member-----Member

Role of the project management committee

1. Preparation of annual plan for management of talent co-creation lab
2. Preparation of annual budget and forward it to central office of the university for approval under the regular budget of DOREX
3. Conduct at least two monthly meetings with students, teachers, researchers, business entrepreneurs, policy makers, extension specialist and other stakeholders to generate innovative ideas which can increase the employability
4. Repair, maintain and update the tools, equipments and software of the lab
5. Mobilize the voluntary committees of the students in guidance of teachers in different community programs, campaign, farmers field schools etc.
6. Publication of annual report as a component chapter in the regular report of DOREX.
7. Establish interrelationship with students-teachers-researchers-entrepreneurs-university officials and other stakeholders for scale up of the unit in branch colleges of the university
8. Link it with agribusiness incubation center (after its establishment in the university), which was approved by the Government of Nepal in the budget of university for the year 2021/22.

Establishment and Functioning of INNOTAL E-Lab

Visit E-la at any time at: <http://open-research.unwe.bg>



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University Ideas

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Title	Tag	Actions
Assessing Vulnerability of Landslides of the Area through GIS techniques	Training	
ASSESSMENT OF POSTHARVEST LOSS WHILE USING VARIOUS HANDLING PRACTICES ON BANANA SUPPLY CHAIN	Research project	
Beneficial insects on sustainable agriculture	Volunteering project	
Bridging the gender gap in agriculture through climate smart agriculture in the agriculture smart villages of Nepalgunj sub metropolitan city.	Research project	
carbon sequestration	Entrepreneurship	

Sample research and training projects identified by students and entrepreneurs

Beneficial insects on sustainable agriculture	Volunteering project
Bridging the gender gap in agriculture through climate smart agriculture in the agriculture smart villages of Nepalgunj sub metropolitan city.	Research project
carbon sequestration	Entrepreneurship training
Collection and Identification of local seed of Taplejung	Research project
Collection, identification and promotion of underutilized indigenous crops to conserve them from being extinct.	Research project
Combination of apiculture with organic farming in mid hills of Nepal	Entrepreneurship training
conservation of indigenous genetic resources and their use	Research project
Construction of Cold Storage and Processing Unit in Increasing Profitability From Apple Farming.	Innovation Training
Construction of solar cold storage	Community service project
Consumption of junk stage-layers poultry	Live Business

Sample research and training projects identified by students and entrepreneurs...

Distribution, Status and Conservation Threats to Mugger Crocodile (<i>Crocodylus paustris</i>) in Koshi Tappu Wildlife Reserve, Nepal.	Innovation Training
Effect of cattle urine in soil physio-chemical property and production of potato	Joint university- business training
Effectiveness of Contract farming for the improvement of small holder farm income and food security among Chepang tribe in Chitwan, Nepal	Innovation project
Effectiveness of tri-partite technology transfer(university, student and farmer) and its practical application.	Innovation project
Effects of contour farming on runoff and soil erosion reduction in midhills	Community service project
Establishment of Slope Agricultural Land Technology(SALT) demo plot at Badikedar Rural Municipality, Doti.	Research project
Extension of knowledge of postharvest technology among farmers	Entrepreneurship training
Farm based farmers training	Joint university- business training

Some Glimpses of the project activities













Co-funded by the
European Union
ERDF 2014-2020

INNOTAL

AN INTERNAL STAKEHOLDERS' WORKSHOP ON
Employability, Entrepreneurship and Innovation Training across the
Disciplines in Agriculture and Forestry University

ORGANIZED BY
Directorate of Research and Extension: AFU and INNOTAL
March 28, 2019
Rampur, Chitwan, Nepal













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)









Acknowledgements

Erasmus+programme of the EU

Team leader of the project Prof. *Stoychev*

Project management team, Bulgaria

Partner Asian universities and supporting European Universities

VC, AFU, Prof. Dr. Punya Prasad Regmi

Registrar, AFU, Prof. Dr. Sharada Thapaliya

VC, Gandaki University Prof. Dr. Naba Raj Devkota

Former VC, AFU Prof. Dr. Ishwari Prasad Dhakal

Director DOREX, AFU Prof. Arjun Kumar Shrestha

Entrepreneurs, Traders and Farmers

Students, staffs and teachers at AFU

And, all other helping hands

Please Your feedbacks on.....

- This initiative of the university
- Talent co-creation lab
- Sustainability plan and action plan
- Employability enhancement strategies

Thank you all