CNR 2017 Summer School in Bhutan

from 11th-29th of September, 2017

Overview over preliminary program

The summer school takes place on the campus of the College of Natural Resources (CNR), Royal University of Bhutan, Lobesa and consists of three week long seminars each lasting over five days from Monday to Friday. Lectures take place from 9 AM to 5 PM. There will be two 20 minutes tea breaks and an 80 minutes lunch break, which will also allow for informal exchange between the resource persons and participants. A detailed preliminary schedule of each seminar is presented below. In addition to the lectures there is one extra-curricular evening program per seminar planned which will allow for slide shows on German agriculture, introduction to German food and culture as well as presenting interesting DAAD funding opportunities to enrol in master and PhD programs at Humboldt University of Berlin or University of Hohenheim.

Organized by:

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DAAD
Deutscher Akademischer Austauschdienst
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Seminar 1 - Monday 11th to Friday 15th of September, 2017
Principles of farm economics and resource planning

Lecturer: Dr. Jonas Luckmann, Humboldt University of Berlin
Assistant: Arndt Feuerbacher, Humboldt University Berlin

Time	Monday 11.09.2017	Tuesday 12.09.2017	Wednesday 13.09.2017	Thursday 14.09.2017	Friday 15.09.2017
9.00 – 10.20 AM	**D1.1 – Luckmann** • Welcome to participants • Presentation of seminar content • Introduction to farm management	**D2.1 – Luckmann** • Farm planning and Control: Enterprise budgeting and analysis; calculation of gross margins and total farm income	**D3.1 – Luckmann** • Investment Analysis	**D4.1 – Luckmann** • Brief introduction to production economics	**D5.1 – Luckmann/ Feuerbacher** • **Ex. VII:** Extending Linear Programming Models
20 Min	Tea break				
10.40 AM – 12.00 PM	**D1.2 – Luckmann** • Farm resource analysis	**D2.2 – Luckmann** • Partial budgets • Cash-flow analysis	**D3.2 – Luckmann** • Loan Repayment Plans	**D4.2 – Luckmann** • Introduction to Linear Programming and Whole Farm Planning	**D5.2 –Luckmann/ Feuerbacher** • **Ex. VIII:** Extending Linear Programming Models
80 min	Lunch break				
1.20 – 3.00 PM	**D1.3 – Luckmann** • Balance sheet analysis	**D2.3 – Luckmann/ Feuerbacher** • ***Ex. II:*** Budgeting & Gross Margin Analysis	**D3.3 – Luckmann/ Feuerbacher** • ***Ex.IV:*** *Investment Analysis*	**D4.3 – Luckmann** • Implementation of basic farm level models	**D5.3 –Luckmann/ Feuerbacher** • Model Validation • Interpretation of Results and Sensitivity Report • Opportunities and Limitations of Linear Programming Models
20 min	Tea break				
3.20 – 5 PM	**D1.4 – Luckmann/ Feuerbacher** • ***Ex. I:*** Balance sheet analysis	**D2.4 – Feuerbacher/ Luckmann** • ***Ex. III:*** *Budgeting & Gross Margin Analysis*	**D3.4 – Feuerbacher/ Luckmann** • ***Ex. V:*** *Loan Repayment Plans*	**D4.4 – Feuerbacher/ Luckmann** • **Ex. VI:** Linear Programming Models	Evaluation of Seminar Week
7.00 PM			**German evening:** Insights into German culture and way of farming		

Seminar 2 – Monday 18th to Friday 22nd of September, 2017

Environmental economics in the context of Bhutan: *Cost-Benefit analysis of selected land use activities in mountainous agriculture*

Lecturers: Prof. Dr. Christian Lippert, University of Hohenheim
Assistant: Manuel Narjes, University of Hohenheim

Time	Monday 18.09.2017	Tuesday 19.09.2017	Wednesday 20.09.2017	Thursday 21.09.2017	Friday 22.09.2017
9.00 – 10.20 AM	**D1.1 – Lippert** • Introduction to seminar content • Theory of optimal resource allocation • Market efficiency in the context of resource use	**D2.1 – Lippert** • The Economics of Ecosystems and Biodiversity (TEEB) • Total economic value of an environmental resource • Ecosystem services of rural landscapes	**D3.1 – Lippert/Narjes** • ***Ex. III*** Valuating insects' pollination services • Short recapitulation of investment appraisal	**D4.1 – Lippert** • Ethically problematic aspects of CBA (implications of discounting / externalities) • ***Ex. IV (PC-LAB)*** *(cont.)*: CBA for an orchard revisited	**D5.1 – Narjes/Lippert** • ***Ex. VI*** *(cont.)*: Presentation of statistical models and discussion of the results of the choice experiment
20 Min	Tea break				
10.40 AM – 12.00 PM	**D1.2 – Lippert** • Market failure in case of environmental resources • Environmental externalities of conventional and organic farming	**D2.2 – Lippert/Narjes** • Methods for valuating natural and environmental resources • Benefit transfer	**D3.2 – Narjes/Lippert** • Cost-benefit analysis (CBA) in the context of sustainable land use • ***Ex. IV (PC-LAB)***: CBA for a conventional orchard	**D4.2 – Narjes/Lippert** • ***Ex. V (PC-LAB)***: CBA for an organic orchard and analysis of a farmer's decision on whether to convert to organic production or not	**D5.2 – Lippert** • Agro-environmental policies to internalize land use externalities • Examples for agro-environmental policies
80 min	Lunch break				
1.20 – 3.00 PM	**D1.3 – Narjes/Lippert** • Public goods and common pool resources • Prisoner dilemma and social dilemma	**D2.3 – Narjes/Lippert** • ***Ex. II (PC-LAB)***: Valuation of cultural ecosystem services relying upon indirectly revealed preferences	**D3.3 – Lippert/Narjes** **Projected field trip**	**D4.3 – Narjes/Lippert** • ***Ex. VI***: Discrete choice experiment to assess workshop attendants' willingness to pay for rural landscape preservation	**D5.3 – Lippert/Narjes** • Examples for agro-environmental policies (cont.) • ***Ex. VIII***: Discussion of appropriate agro-environmental policies for Bhutan
20 min	Tea break				
3.20 – 5 PM	**D1.4 – Narjes/Lippert** • ***Ex. I:*** Game theory exercises for analyzing social dilemma	**D2.4 – Lippert/Narjes** • ***Ex. II*** *(cont.):* Discussion and criticism of the example	**D3.4 – Lippert/Narjes** **Field trip** *(cont.)*	**D4.4 – Lippert** • ***Ex. VII***: Design of a benefit transfer to assess the value of ecosystem services in the Punakha valley	**D5.4 – Narjes/Lippert** • Seminar evaluation
7.00 PM		**German evening:** Comedy movie on land use change in Bavaria (lunch and beverages will be served)			

Seminar 3 – Monday 25th to Friday 29th of September, 2017
Analysis of agricultural policy scenarios in Bhutan: Theory and practical application

Lecturer: Prof. Dr. Harald Grethe, University of Hohenheim
Assistant: Arndt Feuerbacher, University of Hohenheim

Time	Monday 11.09.2017	Tuesday 12.09.2017	Wednesday 13.09.2017	Thursday 14.09.2017	Friday 15.09.2017
9.00 – 10.20 AM	**D1.1 –Grethe** • Welcome to participants • Presentation of seminar content • Underlying principles of economics and economic decision making	**D2.1 – Grethe** • Governance and institutions • Instruments of agricultural and food policy	**D3.1 – Grethe** • Introduction to policy research methods: partial equilibrium models	**D4.1 – Grethe** • Introduction to the application of general equilibrium models	**D5.1 – All** • Presentation and discussion (Group 1 and 2)
20 Min	Tea break				
10.40 AM – 12.00 PM	**D1.2 – Grethe** • Economic policy and its objectives • Correction of market failures	**D2.2 – Grethe** • Instruments of agricultural and food policy	**D3.2 – Grethe** • Deliberation of a partial equilibrium model for Bhutan	**D4.2 – Grethe** • Presentation of a simple CGE model for Bhutan	**D5.2 – All** • Presentation and discussion (Group 3 and 4)
80 min	Lunch break				
1.20 – 3.00 PM	**D1.3 – Grethe** • Distribution and regulatory policies • Elasticity of demand and supply	**D2.3 – Grethe** • Welfare implications of policy induced changes in market rents	**D3.3 – Feuerbacher** • ***Ex.II:*** Partial equilibrium model for the rice market in Bhutan	**D4.3 – Group work** • Preparation of group presentations on selected topics of agricultural and food policy questions	**D5.3 – All** • Evaluation of seminar week and summer school • Closing ceremony
20 min	Tea break				
3.20 – 5 PM	**D1.4 – Grethe / Feuerbacher** • ***Ex. I:*** Exercises • Discussion of group assignments	**D2.4 – Feuerbacher** • Case Study: Agricultural – and Food Policy in India and Bhutan	**D3.4 – Feuerbacher** • ***Ex. III:*** Exercises of rice self-sufficiency and 100% organic agriculture scenarios	**D4.4– Group work** • Continued	
7.00 PM			**German evening:** Studying in Germany – DAAD programs and experience of DAAD alumnis		

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