**Course program in brief** *Updated: 08.09.2016*

**DAY 1**:\_Monday June 20th ***at Research Centre Foulum***

9.00-10.00 **Introduction**

Welcome, discussion of teaching methods, short tour of the facilities

10.00-11.00 **Feed-back on assignments in feed-back groups**

11.00-12.00 **Students own work with legumes and sustainability**

 Group work in discussion-groups based on pre-course assignments.

13.00-14.00 **Common lines in the student’s work with legumes**

 Group, cross-group and plenum discussions.

14.00-18.00 **Preparation for Tuesday’s and Thursday’s discussions**

14.00-17.00 - Question-market on four topics: Health, grain legumes, nutrient cycling and scale.

 - educate your peer (“what do one of us already know”-round)

 - first research lab on the topics: health and grain legumes

 - educate your peer (“what did we find out”-round)

 - second research lab on the topics: nutrient cycling and scale

 - educate your peer (“what did we find out”-round)

17.00-18.00 **Recapture of knowledge gaps on the four main topics**

 What are the open questions for Tuesday and Thursday?

18.00-19.00 **Dinner in F32**

19.00 Bus transport to the hostel

**DAY 2:** Tuesday June 21st ***at Research Centre Foulum***

8.30-10.00 **Can legumes replace imported protein? and improve animal health?**

Presentations from Fred Stoddard and Stig Milan Thamborg.

10.30-12.00 **How can the students legumes support an enhanced sustainability**

Group work together with Fred Stoddard and Stig Milan Thamsborg.

13.00-14.00 **How can students legumes support an enhanced sustainability**

Swap of groups and repeat the discussion from before lunch

14.00-16.30 **FAO and EURO-STAT exercise**

Calculate the grain legume production need to replace the present import. Guided by Fred Stoddard.

16.30-17.45 **Recapture of the discussion**

Group discussion on what new thoughts and learning came at the plenum discussion.

1745-18.00 **Literature time**

 Suggestions for further reading on the topics.

18.00-19.00 D**inner in F32**

19.00 Bus transport to the hostel

**DAY 3:** Wednesday June 22nd ***at Research Centre Foulum***

8.30-10.00 **Questions arising from yesterday’s discussion**

 Plenum discussion with Georg Carlsson and Fred Stoddard.

10.30-12.00 **What is “Sustainable intensification”?**

Group and plenum discussions to expand our understanding of the potentially contradictory terms “sustainability” and “intensification”.

13.00-17.30 **Excursion**

 First: The bio-refinery pilot plant (Vinni Kragbæk Damborg)

 Second: Field trails at Foulumgård experimental station (Chiara, Wenfeng, Nawa)

Third: Coffee and walk in Hjarbæk, discuss the ecological catastrophe in 1825

17.30- **Dinner at “das Ritter sport haus”**

**DAY 4:** Thursday June 23rd ***at Research Centre Foulum***

8.30-10.00 **N from legumes – how much and how does it cycle in the field**

Presentations from Georg Carlsson, and Jørgen E. Olesen.

10.30-12.00 **N and nutrient cycles in student’s work related to overall knowledge**

Group discussion with Georg Carlsson, Jørgen E. Olesen and Jim Rasmussen.

13.00-14.00 **Expert visit: what are the open question in relation to legume derived nutrients**

14.00-14.30 **Are we getting it all wrong?**

 Presentation regarding soil fertility and plant N uptake by Jim Rasmussen.

15.00-16.00 **The “inspire your peer”-walk**

16.00-17.00 **Can new insights in N and nutrient cycling improve use efficiency**

 Group discussion on new ideas in legume research.

17.00-17.45 **Plenum recapture of today’s discussions**

17.45-18.00 **Literature time**

 Suggestions for further reading on the topics.

18.30 - **Dinner at Café Arthur and midsummer celebration in Viborg**

**DAY 5:\_**Friday June 24th ***at Research Centre Foulum***

8.30-9.30 **Recapture of the course week input**

10.00-12.00 **Questions left unanswered**

13.00-14.30 **Open mind session – where should I and my peer go from here?**

What should be in the post-course assignment?

14.30-15.30 **Course evaluation and round-off, incl. NOVA evaluation**