PhD course 2017

ADVANCED LCA

CONSEQUENTIAL MODELLING

EIO-LCA, ILUC AND

SOCIAL LCA

29 MAY - 2 JUNE 2017, AALBORG, DENMARK

Organised by the Doctoral School of Engineering and Science, Aalborg University and the Danish Centre for Environmental Assessment (DCEA), www.dcea.dk, in collaboration with the International Life Cycle Academy (ILCA) www.ILCA.es

COURSE DESCRIPTION

The course aims at strengthening skills in life cycle inventory analysis. The course introduces to advanced inventory modelling using the techniques of consequential LCA and input-output (IO) LCA. The students will apply algorithms for performing consequential LCA in the definition of functional unit, consumption mix, and identification of determining and dependent co-products. The course will bring the above mentioned theories further into practice on two specific cases: modelling of indirect Land Use Changes (iLUC) and socio-economic impacts. The course targets the development of advanced competences in LCA by applying the problem based-learning (PBL) teaching method. Following the PBL model that focuses on learning by doing and reflection, the course activities will include intensive group work, problem defining and solving applied to real-word cases, practical exercises, and discussion sessions or workshops.

Students work in groups (max 5 people). Each group will work on a case study and apply the knowledge of the course on the case study and prepare a portfolio. All portfolios are made available at the end of the course and each student will thus get the info on diffe - rent cases. Students should be able to organise themselves using online tools (skype, dropbox etc) to collaborate in groups remotely prior to and after the course.

The course is organized in five consecutive days of full-time activities (09:00-16:00). When including readings and group work assignments, the total course workload corresponds to 5 ECTS (1 ETCS = 25 hours of work for the student).

Optionally, participants can choose to write a paper based on their PhD project and combining the know-how developed during the course, that will be reviewed by the course lecturers. The submission of the paper will have deadline approximately 10 weeks after the last day of the course. Choosing this option will correspond to obtaining additional 3 ECTS.

REGISTRATION

Please apply via mail to the course organizer Massimo Pizzol (massimo@plan.aau.dk).

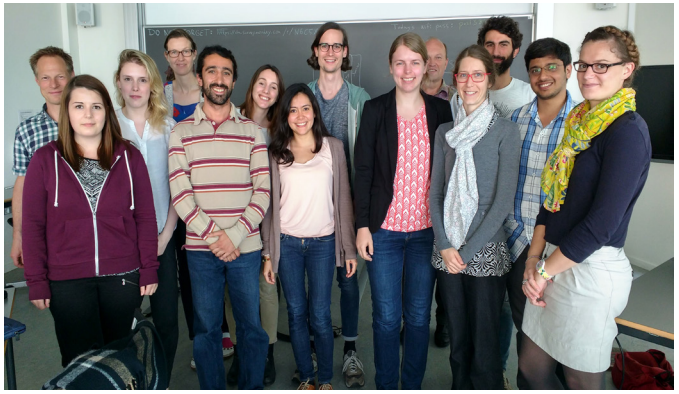
Please provide the following information in the email: Full name / Profession (PhD student, postdoc, consultant…) / Institution / Address / email address / Phone no / your research field or Phd topic / your experience with LCA / registration for paper writing option (yes or no).

Registration deadline is 1 May 2017

Number of seats: 25

ECTS DISTRIBUTION

Activity	Hours	ECTS
Lectures and group work in class	40	1,6
Readings	40	1,6
Group work prior to course	20	0,8
Group work after course	25	1
Total	**125**	**5**



DCEA | THE DANISH CENTRE FOR ENVIRONMENTAL ASSESSMENT

PRELIMINARY PROGRAM

- Day 1-2: Consequential modelling in life cycle inventory
- Day 3: Input-output modelling
- Day 4-5: Modelling of indirect land use changes and new perspectives in Life Cycle Impact Assessment

LECTURERS

Bo Weidema, Professor
Jannick Schmidt, Associate Professor
Søren Løkke, Associate professor
Massimo Pizzol, Associate professor

PRICES*

Attendee	Price 5 ECTS	incl. paper, 5+3 ECTS
PhD students affiliated to a Danish University	Free	Free
PhD students not affiliated to a Danish University	3000 DKK (400 EUR)	3750 DKK (500 EUR)
Academics (e.g. post doc and professors)	6000 DKK (800 EUR)	7500 DKK (1000 EUR)
Professionals (consultancy, industry etc)	15000 DKK (2000 EUR)	18.750 DKK (2500 EUR)

* *Prices do not cover meals, accommodation, and social dinner on Monday*

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