Join Radboud Summer School 2019!

Sustainability Science: A System Dynamics Perspective

cchange perspective

Radboud University
Current modes of consumption and production are unsustainable because of their effects in terms of amongst others climate change, biodiversity loss, and inequalities. To counter these effects, fundamental changes are needed in how societies manage scarce resources, energy, food, water, etc. Sustainability Science aims to guide such changes by putting perspectives from both social sciences and natural sciences at the service of the pursuit for increased sustainability. Because of the complex human-nature interactions involved in sustainability issues, this pursuit is inherently transdisciplinary in nature.

Adopting a system dynamics perspective to address sustainability is advocated by many because of its ability to develop boundary-crossing insights that appreciate the complex nature of sustainability problems. This course will introduce you to the system dynamics methodology as a way of analysing sustainability problems and you will create dynamic models that help overcoming them. You will learn to model the structure of socio-ecological systems from a stock-flow perspective, analyse the dynamic behaviour of these systems and design policies. You will study systems with multiple feedback loops, time delays, and nonlinear responses to decisions. Through using system dynamics modelling to address sustainability, you will develop a comprehensive, transdisciplinary look at sustainability that leads to actionable policy insights.

After this course you are able to
• Understand the basics of social-ecological systems
• Design simple models of social-ecological systems
• Interpret and use intermediate-level dynamic models

Number of EC
2 ECTS credits

Course leader
Vincent de Gooyert, Assistant Professor, Business Administration, Radboud University

Entry level
Advanced Bachelor, Master, PhD and Professional
This course is designed for
Bachelor's students, or beyond if without pre-knowledge about system dynamics. Professionals with an interest to learn a new method of modelling and simulation

Admission document
CV

You can find more details about this course on our website

Course date
Monday 8 July - Friday 12 July 2019

Course fee students
€600 regular fee
€540 early bird applicants
€510 students and PhD candidates from partner universities
€450 early bird + partner discount

Course fee professionals
€2,500 regular fee
€2,250 early bird applicants
€1,250 NGInfra professionals

Deadline Early Bird discount
1 March 2019

Deadline application
1 May 2019

Apply now!
What is the RSS experience?

RSS is more than just a course!

Radboud Summer School offers you a unique opportunity to meet other students and researchers from all over the world with different cultural and academic backgrounds. You will also get to know Radboud University and the city of Nijmegen. Our social programme includes a welcome reception, guest lecture and farewell drinks. And for a small fee you can join our BBQ, River Cruise on a pancake boat, a Pub Quiz, Sports Activities or a City Game.

Want to know more?
Have a look at what participants have said about their experience on our website!

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