

<b>Course start date</b>	Check out our website for course start dates	
<b>Format</b>	Online, flexible and work at your own pace	
<b>Length</b>	<ul style="list-style-type: none"> <li>• Maximum 200 hours</li> <li>• Recommended completion in 6 months</li> </ul>	
<b>Prerequisites</b>	For Engineers (or related degree or experience)	
<b>For Students Residing</b>	<b>In New Zealand</b>	<b>Outside New Zealand</b>
<b>Course Fees</b>	NZD1,200	NZD2,070
	<i>All fees are inclusive of NZ GST, or any equivalent overseas tax</i>	
<b>Qualifications</b>	Microcredential Course (20-pt)	Professional Development Course
	Digital badge issued on completion <i>You can claim CPD points (check with your preferred/local accreditation organisation)</i>	
<b>Companion Text</b>	<b>Transition Engineering, Building a Sustainable Future, CRC Press, 2019</b>	
	Paperback copy included and access to the eBook through UC library services, while fully enrolled	You can buy the hard copy or the eBook from your preferred provider

### What others think about InTIME®?

‘Instead of imparting facts about global energy systems, this course empowers attendees with an assessment toolbox for understanding the interaction of global economic, energy, social, political, legislative systems. It also enables a way of thinking around re-engineering these systems for the benefit of the planet and society around our basic needs instead of our wants.’

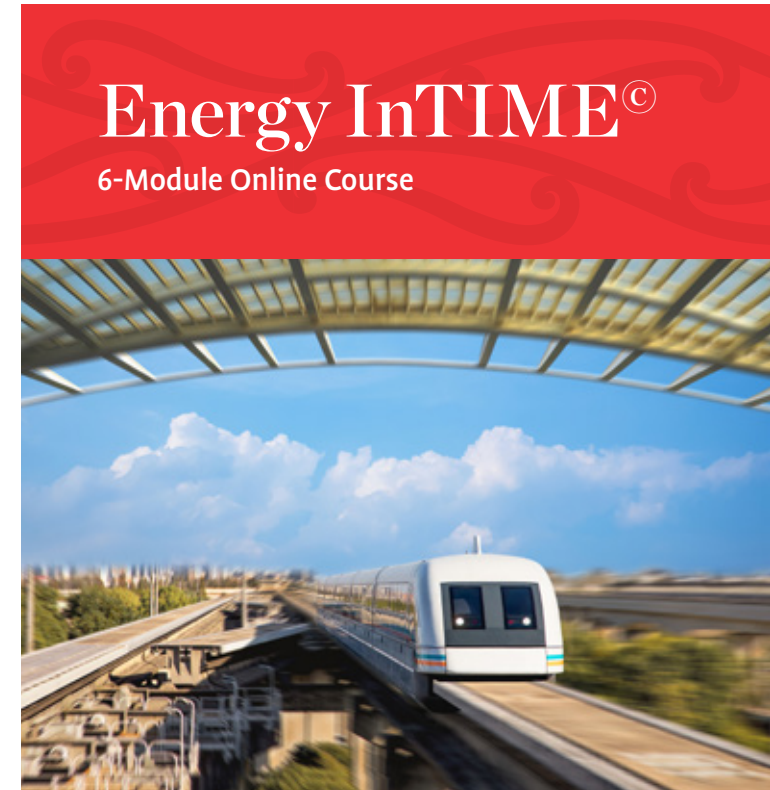
**Dirk, 2023**

‘Today, we have many tools mapping out our carbon transition, which are constrained by building on the way we think today, are consistently failing to deliver the scale and speed of change we need. For me Transition Engineering breaks this cycle.’

**Jamie, 2020**

[Click here](#) for more testimonials.

**For more information or to enrol now, email [transitionengineering@canterbury.ac.nz](mailto:transitionengineering@canterbury.ac.nz)**



## Energy InTIME®

6-Module Online Course

**Learn to move your perspective, get un-stuck from the Business-As-Usual, and discover the “real” value creation in carbon downshift**

**Main instructor: Professor Susan Krumdieck**

Online and flexible, designed for Engineers (or people with a related degree, or experience).  
 Up to 200 hours (recommended completion in 6 months)

*InTIME®: Interdisciplinary Transition Innovation, Management & Engineering*

This course inspires and enables discovery and realisation of effective change toward carbon emissions downshift in a variety of organisational contexts (engineering, education, business, government, non-profit organisation, and community). The course explores new quantitative understanding of the climate and resource challenges (energy, materials usage, etc) caused by unsustainable growth, by applying a mix of theory, storytelling, and examples. The course guides you to advance your related capabilities, competencies, and strategies. The personal, interpersonal, organisational, and infrastructural dimensions of change leadership for energy and resource transition are addressed.

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## Study Energy InTIME<sup>®</sup> and tackle your wicked problem with a local solution

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### Learning outcomes

Learning outcomes include working knowledge of the Interdisciplinary Transition Innovation, Management and Engineering (InTIME<sup>®</sup>) Methodology and key strategic analysis tools.

You will gain confidence in the face of what seem like entrenched positions and impossible problems.

By the end of the course, you and your organisation will be much more prepared to discover opportunities for transition and to adapt to the future trends in energy and economic downshift.

### Course structure

#### Module 1 – Mega-Problems

The Mega-Issues of Unsustainability including accumulation of Greenhouse Gas. Focus on the problem of Peak Oil.

#### Module 2 – Unsustainability

The Problems of Unsustainability in Complex, Global Systems with a focus on the problem of Exponential Growth. Case studies on the Water, Energy and Food nexus and on Mining.

#### Module 3 – Complexity and Communication

Finding good data and exploring future scenarios is the key to cutting through the emotion and nonsense. Case study on Energy.

#### Module 4 – InTIME<sup>®</sup> Methodology

Presentation of the InTIME<sup>®</sup> methodology and how to use it for wicked problems. Case study on Transport.

#### Module 5 – InTIME<sup>®</sup> Models and Tools

Theory of Anthropogenic System Dynamics, Development Vector, Strategic Analysis of Complex Systems, illustrated by InTIME<sup>®</sup> Examples.

#### Module 6 – Applying Economics

The importance of Economic Decisions and Transition Economics with reminders on existing methods (Environmental Externalities, EROI, etc) and other ways to look at the future.

#### InTIME<sup>®</sup> Project - Apply your new skills to something locally relevant for you!

You will practice the InTIME<sup>®</sup> Methodology on a wicked problem in your own community or company.

### Learning model

This course is offered online for your convenience and flexibility. You will feel part of a community and gain insights and answers to your questions from trained tutors/experts in Transition Engineering and/or other students.

#### Online - Self-paced:

- 20 hours of pre-recorded lectures and tutorials, delivered by Professor Susan Krumdieck and other experts in Transition Engineering
- Small assignments with regular assessments and online quizzes per module to keep you on track
- Personal work on your InTIME<sup>®</sup> Project using resources and templates
- Discussion forums to ask your questions and exchange with the tutors and other students
- Readings (textbook and suggested materials)
- Additional resources (podcasts, relevant and practical InTIME<sup>®</sup> case studies, etc)

#### Online – Live (additional opportunities):

- Regular online tutor-led sessions and students-led networking discussions
- Up to 12 hours of online small-group workshops with experts in Transition Engineering to support your InTIME<sup>®</sup> project
- Additional options for groups – contact us [transitionengineering@canterbury.ac.nz](mailto:transitionengineering@canterbury.ac.nz)

### Assessment

- Online quizzes 9%
- Four assignments 16%
- InTIME Project 75%