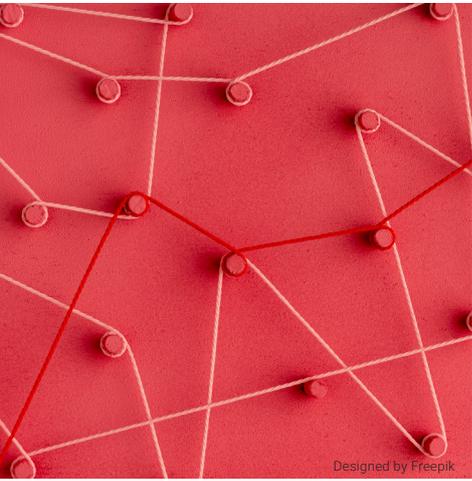


MINOR

INTELLIGENCE, CREATIVITY, AND RESPONSIBLE TECHNOLOGICAL INNOVATION IN SOCIETAL TRANSFORMATIONS (ICR&TIST)



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TODAY'S SOCIETY IS IMPACTED BY COMPLEX, FAST- AND CONTINUOUSLY CHANGING PROBLEMS. THESE NEED TO BE ADDRESSED IN AN INTER- MULTI- AND TRANSDISCIPLINARY WAY. THE ICR&TIST MINOR CHALLENGES YOU TO DIVE INTO THIS COMPLEXITY AND MAKE A CHANGE THROUGH RESPONSIBLE RESEARCH AND INNOVATION.

What is a Challenge-Based Learning (CBL) Minor?

Adapting education to the needs of the students. Involving stakeholders from society and working towards solutions to the world's greatest challenges. That is what challenge-based learning (CBL) is about. The fundamentals of Challenge-Based Learning are based on: wicked problems, multidisciplinary teams, involvement of stakeholders, process over product, failing is part of learning, content and skills development, and reflection.

The goal of the CBL minor ICR&TIST is to investigate specific societal challenges for which the UT has in-house expertise. You will create these solutions by conducting high-quality research in a multidisciplinary environment which will shape your mindset as a student and professional. The minor is offered in English and accessible for both national and international students.

The ICR&TIST CBL minor starts as a pilot in September 2022. If you are interested in this minor, you are invited to an (online) webinar on May 23, lunch time 12:50-13:40, or an on-campus information meeting including lunch on June 13, lunch time 12:50-13:40, to discuss your interests and questions.

Is this Minor for you?

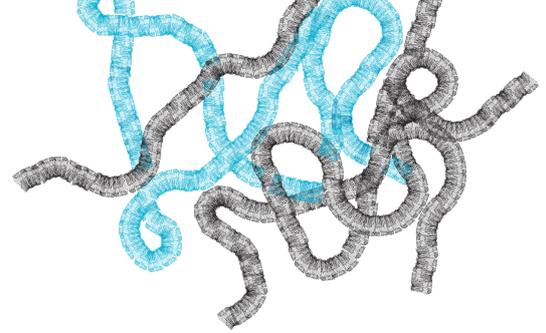
Are you a critical thinker intrigued by current societal challenges who is eager to learn how you can contribute? Do you want to collaborate in a multi-disciplinary team of students in the social and engineering sciences together with stakeholders and researchers? Do you like the idea of a learning experience that you can shape yourself? Then the CBL minor *Intelligence, Creativity, and Responsible Technological Innovations in Societal Transformations* (ICR&TIST) might be what you are looking for.

Today's problems are complex, fast- and continuously changing and influence society on multiple levels.

These challenging problems need to be addressed in an inter- multi- and transdisciplinary way. The ICR&TIST minor challenges you to dive into this complexity and make a change for a real- world problem.

The Inter- Multi- AND Transdisciplinary Learning Environment

To get a grip on the complex societal challenge you will work on, we will approach scientific research and socio-technological innovations from an inter- and transdisciplinary perspective. You will be a member of a team of students with different disciplinary backgrounds. Together



You will be part of a larger and lively community

you will be part of a larger and lively community of teachers, field experts, and organisations. This community will be a collaborative, enriching, and supporting environment with the common goal of learning while working on the challenge.

To create this vibrant and dynamic environment, you will be working in a Challenge-based Research and Learning (CBR/L) framework. This means that you will focus on a self-chosen part of the challenge by gathering, analysing, and shaping relevant knowledge to understand it adequately. This is essential to achieve the overarching objective of this minor: improving your ability to responsibly conduct trans- and interdisciplinary research that combines engineering and social sciences. You will learn to raise critical questions, see unforeseen aspects, and find new creative directions for developing sustainable solutions. This ability requires personal, professional, and academic skills that you will develop in this minor, such as:

- critical and creative thinking,
- reflection,
- inter-and transdisciplinary practice,
- research skills in RRI,
- topical expert knowledge,
- and scientific understanding.

These skills will be a great asset for your future career. They are transferable to all kinds of professional and research settings, but that is not all. By taking this minor you will have the opportunity to choose the competencies that you want to develop, fitting to your professional and academic profile.

Defining your learning path

Compared to most bachelor programmes, in this minor you will decide which knowledge and skills you wish to develop. In other words, you will act as a self-directed learner (SDL). This unique element allows you to personalise your own learning path, making choices on what subjects to study and why.

You will be in control. By writing a Personal Development Plan (PDP) you argue on how you will reach the academic as well as your personal learning objectives. You personalise your learning path by choosing a cohesive combination of:

- your personal CBR/L project as part of the general challenge in the minor,
- micro-modules (1-2 EC) aimed at academic and pro-

fessional skills (such as higher-order thinking skills or teamwork) needed in inter-and transdisciplinary research,

- content courses (from other programmes or online courses) to gain knowledge relevant to your CBR/L project.

Along the way, you will be supported by an academic advisor to shape the PDP into a coherent picture.

Additionally, you will be offered a programme of relevant workshops, trainings, and lectures to get you going in the project and help you throughout.

This approach of a personalised learning path ensures that you can pursue and satisfy your academic, professional, and personal interests, needs, and ambitions.

Making an impact

The minor challenges you to make an impact. To do so, you need an environment in which you can do so. We have set up a close collaboration with the UT DesignLab to make this happen. The UT DesignLab is a space where society and research meet to join forces and take on challenging projects. Here, bright minds like you connect with stakeholders to make societal impact.

That is not all, you will have an impact on the future of the minor itself. Because it is a pilot, we wish for your constructive suggestions to evaluate and finetune the minor, so it can become the best it can be.

MORE INFORMATION

Minor coordinator:

dr. Angelique Assink, a.h.assink@utwente.nl

prof.dr.ir. Mieke Boon, m.boon@utwente.nl

For more information about this minor, please feel free to send an email to a.h.assink@utwente.nl

For general information about minors:

www.utwente.nl/minor and <https://www.utwente.nl/en/education/electives/minor/registration>

This minor is not yet in Osiris. If you are interested to sign up for this minor, please send a mail to minor@utwente.nl and to a.h.assink@utwente.nl. We will invite you for an information session on May 23 (online webinar) or June 13 (on Campus). Subscription to this minor is possible until July 1st. We strongly recommend to also sign up for your second choice minor (before the minor deadline of May 23).