

PROGRAMME SUMMER SCHOOL ENGINEERING AND SCIENCE EDUCATION RESEARCH

2 - 6 May 2022

The Summer School provides an opportunity for PhD students engaged in engineering and science education research to learn from experts and their peers.

Students will participate in workshops led by experts, centered around aspects of research in engineering and science education research:

- Introduction: What makes engineering education research so special?
Journals, reference papers, ontology, epistemology, research groups in Europe.
- Quantitative Research Methods
Data collection (surveys, experiments, etc) and data analysis (statistical analysis, quantifying subjective data, common flaws, etc.)
- Qualitative Research Methods
Data collection (interviews, focus groups, think aloud etc.) and interpretative analysis of the data within different research methodologies (Grounded Theory, Phenomenology, Phenomenography, Case study, etc.)
- Mixed Methods
An emergent methodology of research that advances the systematic integration of quantitative and qualitative data within a single investigation.

Participants will have the opportunity to engage with the engineering education community and to present their current research and receive feedback from other students and experts.

ORGANISATION

The summer school is organised to foster discussion and thus numbers will be limited to 20 students to facilitate a comfortable environment. All sessions have a highly interactive format, facilitating exchange of ideas and opinions in general or in the context of the participants' research and projects. Participants will be required to prepare work before the summer school and to engage in exercises each day to prepare for in-depth discussion of specific topics.

WHAT IS INCLUDED?

The cost for each participant is €800 or €950 which includes full summer school participation, accommodation during 4 nights (double or single occupation) and all meals (breakfasts, lunches, dinners and coffee breaks). More information will follow on the website.

WHO CAN ATTEND?

PhD students conducting research in engineering and science education are invited to apply via our website. Deadline for registration 7 February 2022.

www.fet.kuleuven.be/sefi-summer-school-eer

PROGRAMME

CENTRE OF LEUVEN, IRISH COLLEGE (www.irishcollegeleuven.eu)

Hours	Monday 2 May 2022	Tuesday 3 May 2022	Wednesday 4 May 2022	Thursday 5 May 2022	Friday 6 May 2022
9.30 - 11.00 h.		Journals, reference papers	Quantitative Research Methods: Data analysis	Qualitative Research Methods: Data analysis	Mixed Methods: pro's & con's
11.00 - 11.30 h.		Coffee Break	Coffee Break	Coffee Break	Coffee Break
11.30 - 13.00 h.		Epistemology and Ontology	Quantitative Research Methods: Data analysis	Qualitative Research Methods: Data analysis	Conclusions and critical reflections
13.00 - 14.00 h.	Summer School opening and Welcome Lunch	Lunch	Lunch	Lunch	Lunch and Summer School Closing
14.00 - 15.30 h.	Welcome and Participant Introductions	Quantitative Research Methods: Data collection	Qualitative Research Methods: Data collection	Mixed Methods: when?	
15.30 - 16.00 h.	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
16.00 - 17.30 h.	Introduction to EER (research groups)	Quantitative Research Methods: Data analysis	Qualitative Research Methods: Data collection	Mixed Methods: how?	
18.30 - ...	Dinner and exchange of ideas about research projects	Dinner and exchange of ideas about research projects	Dinner and exchange of ideas about research projects	Dinner and exchange of ideas about research projects	