

SEFI Special Interest Groups connect the educators, students and industrial stakeholders with interests in similar aspects of the engineering education. These year-round active groups organise meetings, workshops, seminars, write position papers and organise EU projects.

MATHEMATICS: The Maths Group is primarily focused on finding answers to many questions arising in connection to the challenges of teaching effective courses in mathematics for all engineering students developing their mathematical competencies and skills.

PHYSICS: The Physics Group is a network of physics teachers and people who are interested in how to teach and learn physics in engineering education. The group discusses challenges and shares solutions, and every two years, the Physics Teaching in Engineering Education (PTEE) conference is organized.

ENGINEERING EDUCATION RESEARCH: This group forms a European community of engineering education researchers to contribute with research evidence to the advancement of engineering education in Europe and in the world..

OPEN AND ONLINE EDUCATION: How can we help educators navigate the spectrum of what Open & Online Education is? This year, the Open & Online education working group will work towards building a community dialogue on defining this spectrum.

CONTINUING EDUCATION AND LIFELONG LEARNING: The Group focuses on researching, evaluating, and advancing frameworks, policies, and practices around Continuing Engineering Education and Lifelong Learning that respond to the needs of society and industry.

SUSTAINABILITY: Sustainability principles become an important aspect of the engineering curriculum. The group investigates the field of sustainability with respect to impact on engineering education.

DIVERSITY, EQUITY AND INCLUSION: The group aims to: make SEFI accessible and welcoming; bring the issues associated with the lack of diversity within engineering to the attention of the wider community; amplify practices that foster diversity, equity, and inclusion across engineering education contexts; promote research on diversity, equity and inclusion in engineering education; and create opportunities to share insights and build community

ATTRACTIVENESS: The group aims to provide a forum open to students, practitioners, researchers, industry, and other interested parties to understand how prospective students perceive the attractiveness of engineering (education) and to recommend ways of improving it.

ETHICS: This group aims to build a global community of friends in engineering ethics education. Our projects address policy, research, and education themes related to the ethical and socio-economic dimensions of engineering. We aim to put forward examples of best practices in the teaching of engineering ethics and support research collaborations on societal themes.

CURRICULUM DEVELOPMENT: This group focuses on learning about curriculum innovation in EE in different educational environments, as well as becoming aware of the interests of students from different countries and those of a dynamic society, university/business interaction.

ENGINEERING SKILLS: This group works to review the current state of engineering skills and to identify future trends with a view to inform the engineering education community of these to ensure currency of engineering programmes.

CAPACITY BUILDING: This SIG aims to empower the pedagogical development of educators in engineering Higher Education through building a community of practitioners and researchers in education development.