Special Interest Groups

SEFI Special Interest Groups (SIGs) connect the educators, students and industrial stakeholders with interests in similar aspects of the engineering education. These groups organise meetings, workshops, write position papers and participate in EU projects.

MATHEMATICS: The Maths Group engages in discussion about the role of Mathematics in engineering curriculum, its practical application in professional life, use of technology, the ways of teaching, learning and motivating students, as well as forms of assessment. Every two years the group organises a seminar on these issues..

PHYSICS: The Physics Group is a network of physics teachers and those who are interested in physics teaching in EE. It is a forum of sharing challenges and solutions and it organizes a PTEE conference on every two years.

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: The group aims to help educators navigate the spectrum of what Open and Online education is. The group is interested in new technologies that remove barriers and provide more students with access to engineering education; new possible educational formats;

CONTINUING EDUCATION AND LIFELONG LEARNING: The Group researches theory and practice of CEE and lifelong learning. The aim is to enhance the integration of new practices e.g. work-integrated learning, It-support in CEE, work-based learning; formal, in-formal and non-formal learning activities etc.

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.

GENDER AND DIVERSITY: The group promotes the value of gender diversity and inclusiveness withing the engineering education and profession. The group identifies best practices to attract and retain female students and staff across various European engineering education institutions.

ATTRACTIVENESS: This group works on enhancing the attractiveness of engineering education to potential students - academics, industrialists and a wide range higher education stakeholders, as well as national and international political bodies..

ETHICS: The aims of the Ethics group are to share new and innovative practices in teaching engineering ethics, to keep members abreast of cutting edge themes and approaches in engineering ethics research and to provide a platform for international collaboration between group members.

CURRICULUM DEVELOPMENT: The field of Curriculum Development connects to most SIGs within SEFI. 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.

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.