

Working Groups



SEFI Working Groups connect the educators, students and industrial stakeholders with interests in similar aspects of the engineering education. These groups organize meetings, workshops, write on position papers and EU projects.

MATHEMATICS: Group engages in discussion role of Mathematics in engineering curriculum and its practical application in professional life, use of technology, the ways of teaching, learning and motivating students as well as forms of assessment.

PHYSICS: Physics working 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: The overall objective of this group is to create a European community of engineering education researchers in order to contribute with research evidence to the advancement of engineering education.

OPEN AND ONLINE EDUCATION: This group is interested in new technologies that remove barriers and provide more students with access to engineering education; new possible educational formats; and helping to advance the development of more personalized education by introducing evidence-based, data-driven educational practices.

QUALITY ASSURANCE AND ACCREDITATION: In the light of three cycle study system, increased student and teacher mobility, qualifications frameworks as well as the increase of the cooperation between institutions in EHEA, it promotes interdisciplinarity and stimulate innovation and entrepreneurship. SEFI supports the EUR-ACE label.

CONTINUING EDUCATION AND LIFELONG LEARNING: Its main interest is in development and research into both theory and practice about CEE and lifelong learning. The aim is to enhance the integration of new practises for CEE 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 aims to investigate the field of sustainability with respect to impact on engineering education.

GENDER AND DIVERSITY: The group focuses its work on identifying best practices to attract and retain female students in higher engineering education and gender awareness among academic staff and satisfaction of women engineers in the workplace.

ATTRACTIVENESS: This working group is open to those interested in enhancing the attractiveness of engineering education to potential students - academics, industrialists and those involved in initiatives to enhance the attractiveness of engineering education.

ETHICS: To address the current and future economic, social and environmental challenges specific skills are needed for ethical decision making and action. Indicating such moral qualities is the main focus of this group. The group is now preparing a publication on ethics in engineering.

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.