

Curriculum Development

Talking about curricular design refers to the construction of a path in which a teaching process is organized and therefore, it is the starting point of the same. It then implies defining a set of general guidelines that guide the process through which the proposed training goals are achieved.

The word design or development refers to a plan and the term curricular refers to a journey. Articulating the two terms, it can be signed that when speaking of "curriculum design" it refers to: plan a journey on the basis of which training goals are specified and the knowledge and steps necessary to achieve them are identified.

It gives an account of the process by which: the knowledge, abilities, skills and attitudes selected as those that must be taught and learned in a given time and place, are transformed into pedagogical content;

Scientific knowledge and practical knowledge are transformed into possible capacities to be put into practice in personal, social and work performance.

In the SEFI curriculum development group we study how to improve both the content of engineering studies, as well as the relationship of those contents with the industry and the work of the engineer, as well as the lines and methods of teaching those contents.

Although most of the group's activity is carried out as summer approaches and of course at the SEFI Conference, this year there have been two important approaches before the COVID19 process.

On the one hand, a joint project has been proposed with SEFI colleagues from TU-Eindhoven, for the curricular development of subjects oriented to the integration of Engineering in the smart-city concept

On the other hand, together with the University of Barcelona, a collaboration has begun between the CD-SIG and the Engineering Education research group of this Faculty. The idea is to develop research articles and joint doctoral theses.

In this special session inSEFI2020, we will have as a starting point the presentation of a group of 6 Belarusian universities that have made certain improvements in their content. They will exhibit their work and the attendees will be able to debate, comment, and advise how to improve both the content and the presentation thereof.

Chair – Carlos Rioja