



Faculty of Industrial Engineering & Robotics
and
**Center for Research and Training in Innovative
Techniques of Applied Mathematics in
Engineering Traian Lalescu (CiTi)**



**organise in blended learning format between 28 June – 4 July, 2022, the
Summer School MATH4ENG
in the framework of the Erasmus + Project
ThinkBS: Basic Sciences in Engineering Education**

ThinkBS is an European Project implemented in a partnership of four universities from Turkey, Spain, Romania and Hungary aiming to improve applied mathematics skills of students and graduates in the field of engineering sciences.

Between June the 28th and July the 4th, 2022, courses and applications are presented, as follows:

Day	Section	Professor
28.06.2022	Linear Programming in Optimization Problems Optimization of Transport and Assignment Activities	Ovidiu BLAJINA
29.06.2022	Cryptology: from theory to practice, an integrated view	Emil SIMION
30.06.2022	Advanced Statistical Methods and Algorithms with Applications in Engineering and Medicine	Raluca PURNICHESCU-PURTAN
01.07.2022	Innovative techniques for data security. Applied cryptography in information security	Emil SIMION
04.07.2022	Innovative mathematical modeling techniques: fractional calculus, wavelet analysis, and estimating of nonlinearities	Simona BIBIC, Corina CIPU, Mihai REBENCIUC

All modules will be taught in English for 6 hours daily. Participants will receive a Certificate of Attendance including the Summer School details and the Erasmus + European project context.

The modules target students, PhD students, specialists interested in mathematics applications in advanced fields of engineering and applied sciences. For bachelor students (2nd and 3rd year), attendance may be considered as part of the summer internship and graded accordingly (no math exam 😊).

Registration is open by email at : cristina_dijmarescu@yahoo.com

The Summer School will be followed by an online **Multiplier event** scheduled for **July the 14th, 2022** where feedback collected from Summer School participants and courses organised in the project framework will be analysed in order to follow up and disseminate good practices, learning materials and teaching approaches developed.



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