



**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 27 June – 11 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 27th and July, the 11th, 2022, courses and applications are presented, as follows:

Day	Section	Professor
27.06.2022	Registration and organisation	
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
05.07-09.07.2022	Projects and applications	All professors schedule tutorials and consultancy for students
11.07.2022	Projects presentation	Committee

All modules will be taught in English for 6 hours daily followed by individual and/or teamwork. 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 the 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 😊). Projects and applications will be customized in line with the students level so as to acquire technical and transversal skills and promote teamwork. In total, the Summer School activity facilitates for students a practical stage of 90 hours of activity, respectively 4 ECTS.

Registration is open by email at : [cristina\\_dijmarescu@yahoo.com](mailto:cristina_dijmarescu@yahoo.com)



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