“Gheorghe Asachi”Technical University of Iasi

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Type of organisation:

SME	☐	School	☐	University	☑	Public Authority	☐
Training	☐	No Profit	☐	NGO	☐		

Other (Specify)

Fields of action :

SMEs	☐	Youth	☑	Universities	☑	Public Authorities	☐
Equal opportunities	☐	Schools	☑	Unemployed	☐		

Other (Specify)

Description of the organisation

"Gheorghe Asachi" Technical University of Iasi (*TUIASI*) is an university of advanced research and education, classified in the first 12 top Romanian universities, and committed to academic excellence in teaching and research.

Education. TUIASI has 11 faculties providing undergraduate programmes (60), master programmes (84) and doctoral programmes (19) to 16.214 students. The programmes develop with the support of 810 people of academic staff. TUIASI is also fully committed to Bologna Process and its follow-up dimension.

Internationalisation. TUIASI gives high priority to the internationalisation of studies, with significant accent on exchange of both students and academic staff. Each year, an important number of students and academic staff go abroad to partner universities within 112 institutional agreements and 330 Erasmus Inter Institutional Agreements.

Research Activity. TUIASI has an important research dimension, having 23 accredited research centres with specific laboratories for scientific research. During the last 5 years, our university took part in more than 350 national and international projects and research contracts with a total value of over 9 million Euros. The Department of Mathematics and Informatics of TUIASI is one of the top departments concerning scientific research, a fact certified by an important number of research projects earned in national and international competitions, and, moreover, by several research papers published in the top rated international journals. Furthermore, the quality of research in Mathematics developed by the academic staff of the Department of Mathematics and Informatics of TUIASI led to the classification of TUIASI, in 2017, in top 500 Shanghai universities in the world (first among the technical universities in Romania) in the Applied Mathematics domain.

Experience of the organization in previous European projects

As TUIASI is running technical higher education (HE), for the time being, e-learning is a too-far target, but mixed-learning between the classical style and some more modern manner, involving digital technologies and online delivery, has been already taken into consideration. Thus, IT infrastructure is developing at both central and departmental level. The academic staff is currently trained in using ITC tools for the teaching – learning process. This training is provided via the European structural funds projects: DidaTec, ISCED 2 – 3 POSDRU/87/1.3/S/64227-eProf.ro; TR1-LEO04-242173-EDU-SHOE; PT1-LEO05-08590-TIED; BROWNTRANS KNOW HOW; LLP-1-2012-1-UK-Erasmus-ENW-SALEIE; LLP-2012-RO-AJM-MO-JEAN MONNET. For the time being, a Moodle Platform is currently used by a limited number of educational programmes. TUIASI is in the process of developing its own platform for mixed-learning education. Due to the recent changes at European HE system level, TUIASI has been actively involved in improving the university management skills for the academic staff involved in university/faculty/department administration.

Experience and Expertise of the organization in the project's subject area

Some of the members of Department of Mathematics and Informatics were involved in the period 2012-2016 in a POSDRU project developed by the Ministry of Education of Romania, with 12 Romanian university partners (POSDRU/56/1.2/S/32768), named *The formation of academic staff and of students for using modern instruments of teaching-learning-evaluation for mathematical disciplines, to the aim of creating performant and practical skills for the labour market.* Within this project, some written library was developed (in Romanian), including 12 books, as examples of good practices for teaching the mathematical disciplines to engineers, and also some well-acknowledged books of training of students for mathematical international competitions at academic level.

We mention that in the Department of Mathematics and Informatics activates a *Center for Performance in Mathematics*. Mainly, this center hosts training sessions in order to prepare the students of the "Gheorghe Asachi" Technical University for national and international Math competitions. In addition to exceptional results nationwide, our university team participated at the International Olympiads in Bulgaria, Cyprus, Greece, Hungary, Israel, Macedonia and Romania, where our students won gold medals, silver medals and bronze medals. Also, at the center are organized courses of initiation in mathematical software (Matlab, Mathematica, Maple, LaTeX) for doctoral students and professors from our university.

Contributions that can be provided to the project

We will try to congregate at multiple points in the process of improvement of the quality of Mathematics teaching, finding innovative and attractive methods for learning Math. We are looking for collaboration with all members of the project in order to find common solutions which can be shared in the future by all of us.
Our experience in teaching and training of the Math olympiad team can be shared in MathE project. Also, our Center for Performance in Mathematics could be consider as a good practice example for our new project.

Reasons of involvement in the project

Taking into account that Mathematics is becoming less popular among today's young people, the engagement in this project could be a possible key for us to stimulate the interest of study Mathematics and its applications. Our expectations are related to finding new methods of teaching in accordance with modern needs.

Contact Person's Experience and Expertise

Marcel Roman is the Head of Department of Mathematics and Informatics at "Gheorghe Asachi" Technical University of Iaşi. He graduated Mathematics at "Al.I.Cuza" University of Iași (1994), obtained his Ph.D. degree in differential geometry (2001) and had a postdoctoral fellowship in Japan (2003).
He leads the Center of Performance in Mathematics from Technical University of Iaşi, obtaining very good results at national and international olympiads for students. He was the chair of the editions 2014 and 2018 of the South-Eastern European Mathematical Olympiad for University Students (SEEMOUS). Also, he is involved in preparing of high school pupils for international contests (gold medal at ITYM2018 – Paris).
The teaching activity includes the following courses: Linear Algebra, Analytic and Differential Geometry I-II , Advanced Mathematics for Civil Engineering, Special Mathematics I-II.
His research is focused on Differential Geometry (Finsler and Lagrange spaces) and Operator Theory.

Radu Strugariu is professor at Department of Mathematics and Informatics, "Gheorghe Asachi" Technical University of Iaşi. He obtained the Ph.D. in Mathematics at University "Al. I. Cuza" Iaşi, Romania (2009).
As member of the the Center of Performance in Mathematics and trainer of the university Math Olympiad Team, he obtained many achievements at national and international contests in the last 10 years.
Courses taught: Numerical Analysis with MATLAB, Statistics and Data Manipulation, Mathematical Analysis, Special Mathematics.
His research interests is oriented to regularity of set-valued maps, variational analysis, multiobjective optimization, nonlinear analysis.