

ENGINEERING FOR ELI-NP MAINTENANCE”

Goal of the project

Developing a curriculum for master’s programs through the creation of optional innovative and flexible modules, better adapted to the needs of the labor market and society, according to current regulations, engineering Laser – “Light Amplified by Stimulated Emissions of Radiation” and ensuring the protection and maintenance of the ELI-NP predictive infrastructure.

Short description of the project

The activities carried out are focusing on:

- Assuring of a significant contribution to the advancement of the entire society;
- Providing for graduates of specific skills related to how treatment products activated by exposure to very high power laser radiation simultaneously or with exposure to the action of high energy gamma radiation;
- Familiarize students from various faculties of nano-materials and nanotechnologies technically embedded in the facilities construction ELI-NP;
- Ensuring continuity in the flow of graduates of master cycle following top form doctoral training in the use and maintenance of very high power laser facilities;
- Improving access and expanding learning opportunities for graduates of undergraduate, masters by providing flexible, tailored to labor market requirements.

Project implemented by

- Politehnica University of Timisoara, Partner
- Universitatea Politehnica București, Coordinator
- Institutul Național de Cercetare - Dezvoltare pentru Fizică și Inginerie Nucleară „Horia Hulubei”, IFIN-HH, Partner
- Universitatea de Medicină și Farmacie “Carol Davila” București, Partner
- Universitatea din Craiova, Partner
- Universitatea Tehnică “Gheorghe Asachi” Iași, Partner

Implementation period

14.05.2014 - 14.12.2015.

Main activities

Project steps:

- measurements in situ / phase,
- results processing,
- data interpretation
- reparation of analysis bulletin/report

Results

- studies - 6;
- curriculum developed - 6;
- workshops - 6;
- seminars - 13;
- visits for the target group - 7;
- students beneficiary from operations financed at higher education institutions – 280, from which 35 from UPT
- Events “Days of promoting laser installations” - 7.



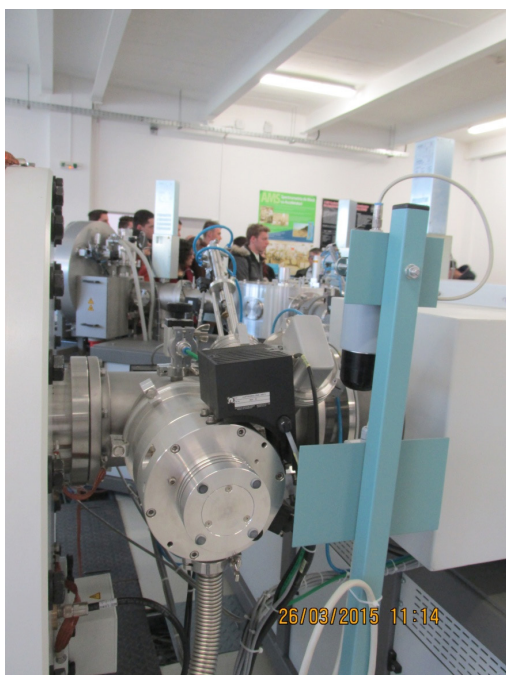
Project presentation achieved by the UPT team in order to recruit the students for the target group, January 2014

Applicability and transferability of the results:

- Developing of a training course/master course/ for preparing young experts in ELI infrastructure (multiple fields)
- The project presented a clear public interest, had an important role in training (present and future) specialists familiar with the particular facility Extreme Light Infrastructure, in order to have the necessary powers to carry out related activities and also has a role in boosting the national economy by allowing entities initiating start-ups and spin-off to be developed around this infrastructure.

Research centre

Research Centre for Thermal Machines and Equipments, Transportation and Environmental Pollution Control



UPT students of the target group visiting the ELI platform from Magurele, March 2015

Financed through/by

Sectoral Operational Program Human Resources Development, 2007-2013



UPT students of the target group visiting the ELI platform from Magurele, March 2015

Research team

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