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C.I.F. (VAT): 51270602; R.A.F.: 164 / 25.10.2024
https://anuen.ro/

PLANNING AND IMPLEMENTATION OF INTEGRATED NUCLEAR EDUCATION ADVISORY SERVICES

IAEA, INEAS Mission – Romania

18-21.11.2025
Bucharest, UNSTPB, University Library, Council Room
https://maps.app.goo.gl/gn85tRPR9mvv92cg6

PREAMBLE

The IAEA's Integrated Nuclear Education Advisory Services conducted by the Nuclear Knowledge Management Section support Member States to establish sustainable nuclear education programme and to appraise existing programmes.

University education has an important role in the development and sustainability of nuclear technologies as it is a key component, along with training and human resource development (HRD), in maintaining an organization's knowledge management capability. Comprehensive sustainable nuclear education programmes are therefore an essential component for the successful application of nuclear technologies. The NKM section has developed methodologies to support the establishment of nuclear education programmes at a national level and the appraisal of existing nuclear education programmes at universities to address specific challenges and to capture good practices.
Universities can optimize their resources to support national objectives for the development and application of nuclear technologies through a detailed evaluation of the current capability and strategic planning for its short, medium and long-term development. This optimization through evaluation and planning can be achieved within the framework of the Integrated Nuclear Education Advisory Services. Adopting the suggestions and recommendations of an INEAS will enable Member States to benefit from a systematic approach that strengthens the coordination between universities, industry, regulators and government.

Two levels of INEAS have been established, one at a national level and one for individual universities.
National INEAS – To support nuclear education programme establishment in countries where the number of such programmes is relatively low or evolving and an introduction to their implementation is required to help establish a strategy and policy to meet future requirements.
University INEAS – A programme appraisal to include specific high-level assistance to optimise and enhance existing nuclear education programmes to ensure their sustainability. It can provide appraisal and provide suggestions, for example, on recruitment, staff retention, the implementation of changes to the programme delivery or curriculum development. A university INEAS is also used to identify good practices at universities.

BENEFITS AND RELEVANCE OF THE INTEGRATED NUCLEAR EDUCATION ADVISORY SERVICES

A national INEAS supports the establishment and development of sustainable national nuclear education programmes by:

- Evaluating current capability and analysing existing education programmes to identify strengths and the areas where investment is needed;
- Providing guidance on educational mechanisms, such as networks, that will support and enhance the nuclear education programmes;
- Introducing a series of indicators that monitor the establishment and development of nuclear education programmes.

The outcomes of this process, including an analysis of the required human and financial resources to support the national development objectives, will ideally be aligned with the IAEA Country Programme Framework which defines the agreed priority development needs and interests to be supported through technical cooperation activities with the IAEA and reflects national development plans and priorities, country specific analyses and lessons learned from past cooperation.

The national INEAS will be beneficial to universities that provide, or wish to provide, education programmes that support the nuclear industry and their stakeholders.

The university INEAS is a two-way knowledge sharing process that captures and shares good practices and lessons learned from which other universities can benefit, as well as providing an opportunity for suggestions on enhancing the host university's education programme(s). Some universities with well-established programmes may be primarily visited to capture and disseminate their successful and innovative programme approaches.

PROVISIONAL AGENDA OF INEAS MISSION IN ROMANIA

TIME	ACTIVITY	LEAD
DAY 1: Tuesday, 18th of November, 2025		**Dumitru Chirlesan, ANUEN**
10.00 – 11.30	**Opening session**	
	Opening Remarks	1. Helena ZHIVITSKAYA, IAEA 2. Mihnea COSTOIU, UNSTPB, RECTOR
	Introduction	All participants
	Introductory remarks and overview of National Nuclear Programme (highlighting strategy and action plan)	1. Cristian BUȘOI - SS 2. Sorin ELISEI – DG 3. Cosmin GHIȚĂ, CEO SNN
11.30 – 12.00	**Coffee Break + Group photo**	
12.00 – 13.30	**Introductory Session**	
	Introducing the objectives of the mission and the processes to be used during the week and expected outputs	Helena ZHIVITSKAYA, IAEA
	IAEA presentations on NKM Section activities and support for establishing nuclear educational and training programmes	Helena ZHIVITSKAYA, IAEA
13.30 – 15.00	**Lunch Break**	
15.00 – 16.30	**Working Session #1**	
	Nuclear science and technology education programme in Romania	Dumitru CHIRLEȘAN, ANUEN
	Radiological and medical sciences education programmes in Romania	"Carol Davila" University of Medicine and Pharmacy, Bucharest 1. Corina-Silvia POP 2. Cosmin DUGAN
	Regulatory body (how they work with safety, do they have a legal document in place, a strategy)	Maria OPRIȘESCU, CNCAN Florin TĂTAR, CNCAN
16.30 – 17.00	**Summary of the Day 1**	

TIME	ACTIVITY	LEAD
DAY 2: Wednesday, 19th of November 2025		**Helena ZHIVITSKAYA, IAEA**
10.00 – 11.00	**Opening session**	
	Results and discussion on the national preliminary survey that was conducted prior to the mission (ANUENs' review)	Dumitru CHIRLEȘAN, ANUEN
11.00 – 11.30	**Coffee Break**	
11.30 – 13.30	**Working Session #2**	
	Experts' introductory presentations: Experts will share the experience of establishing nuclear educational and training programmes. Results and discussion on the national preliminary survey that was conducted prior to the mission (experts' review)	Joerg STARFLINGER, Stuttgart University Gabriel-Lazaro PAVEL, ENEN
13.30 – 14.30	**Lunch Break**	
14.30 – 16.30	**Self-assessment workshop**	
	Self-assessment workshop on the analysis of the current and achievable state of the nuclear and radiological education and training programmes using the self-assessment tool.	All
16.30 – 17.00	**Summary of the Day 2**	

TIME	ACTIVITY	LEAD
DAY 3: Thursday, 20th of November, 2025		**Joerg STARFLINGER, Stuttgart University**
10.00 – 11.00	**Analysis of needs and developing action plan #1**	
	Identification of institutional knowledge needs and offers	All
11.00 – 11.30	**Coffee Break**	
11.30 – 13.30	**Analysis of needs and developing action plan #2**	
	Cluster analysis	All
13.30 – 14.30	**Lunch Break**	
14.30 – 16.30	**Analysis of needs and developing action plan #3**	
	Development of action plans, nomination of project managers and establishment of working groups	All
16.30 – 17.00	**Summary of the Day 3**	

TIME	ACTIVITY	LEAD
DAY 4: Friday, 21st of November, 2025		**Gabriel-Lazaro PAVEL, ENEN**
10.00 – 11.00	**Finalizing the action plan #1**	
	Development of action plans, nomination of project managers and establishment of working groups	All
11.00 – 11.30	**Coffee Break**	
11.30 – 13.30	**Finalizing the action plan #2**	
	Draft Recommendations	All
13.30 – 14.30	**Lunch Break**	
14.30 – 16.30	**Analysis of needs and developing action plan #3**	
	Meeting summary: 1. Conclusions and Recommendation 2. Closing remarks	Helena ZHIVITSKAYA, IAEA Dumitru CHIRLEȘAN, ANUEN
16.30 – 17.00	**Summary of the Day 4. End of mission**	