



Regional Workshop on Instructional Skills for Faculty Lecturers

Hosted by

The Government of Czech Republic

through the

University of Prague

Prague, Czech Republic

30 September -4 October 2024

Ref. No.: ME-RER0049-2402502

Information Sheet

Purpose

The purpose of the event is to discuss and share experience on the use of desk-top iPWR SMR simulator in teaching basic principles of nuclear reactor technologies at the university level.

Working Language

The working language of the event will be English.

Deadline for Nominations

Nominations received after **9 August 2024** will not be considered.

Project Background

Education and training are key factors to the sustainability of the nuclear infrastructure at national and regional levels.

The challenges of providing high-quality education and training in some developing and industrialized countries are primarily associated with limitations on the resources and capabilities of universities in providing the required scope and quality. Adequate attention and resources must be devoted from the outset to the provision of academic competencies and quality educational programmes through cooperation between universities and industry, to ensure the provision of relevant educational and training for nuclear professionals.

Thus, the Technical Cooperation project RER0049, “Enhancing the Capabilities of Educational Institutions for the Sustainable use of Nuclear Technologies” aims to enhance the capacity and quality of educational institutions for the sustainable, safe, and secure use of nuclear technologies in Europe and Central Asia.

The project will facilitate the sharing of information and exchange of knowledge and expertise between countries with well advanced educational programmes and those that need further assistance to optimize and enhance their education programmes. The project offers high impact opportunities such as the establishment and strengthening of nuclear education programmes, resource optimization and development of partnerships.

Scope and Nature

The workshop provides an opportunity for faculty members with nuclear energy systems / nuclear engineering programmes to improve their state-of knowledge and expertise in education and training related activities for small modular reactor technology using the iPWR SMR simulator.

The PC-based basic-principles SMR simulator helps in demonstrating the essential physical processes as well as fundamental system engineering concepts. This type of simulator also serves education and training objectives such as providing an overview of plant behaviour or a basic understanding of the normal as well as abnormal operation modes, and further advancing the state-of knowledge pertaining to reactor modelling and simulation through experimental demonstration. Principles of adult learning, planning and preparation of training lessons, communication and other soft skills development will also be part of the workshop, to enhance the instructional delivery skills of the participants.

Participation

The regional meeting is open to participants from MS of the RER0049 project that have nuclear power-related programmes in universities or are currently in the process of developing their national infrastructure for a new nuclear power plant programme: Armenia, Belarus, Bulgaria, Croatia, Czech Republic, Estonia, Hungary, Kazakhstan, Lithuania, Poland, Romania, Russian Federation, Slovakia, Slovenia, Türkiye, Ukraine and Uzbekistan.

Each Member State can nominate up to two candidates from the educational institutions/ faculty members with direct involvement and experience in teaching, establishing and/or managing nuclear reactor technology courses / nuclear engineering programmes.

Participants' Qualifications and Experience

Participants are expected to have a good understanding the theoretical concepts, technology characteristics and behaviour of at least one nuclear reactor technology. Participants will be expected to have a good working knowledge of the iPWR SMR simulator features to enable them to work through various case studies that have been prior developed by selected project members, to accelerate the understanding and use of the simulator. Guidance will be provided on some aspects of the simulator, but the event will be devoted to working through the case studies.

Interested universities are therefore asked to request from the IAEA and download the [Integral Pressurized Water Reactor](#) (SMR) simulator ahead of the workshop. The simulator, including the associated documentation, is distributed at no cost to interested parties in IAEA Member States.

Follow these simple steps in order to obtain the IAEA PC-Based Simulator:

Step 1: Create a Nucleus login ID by registering on the [IAEA's Nucleus website](#). This is necessary in order to obtain access to our SharePoint website, where all the simulators are hosted.

Step 2: Download and fill out this [simulator request form](#).

Step 3: Scan and send the completed form to the competent official authority (Ministry of Foreign Affairs, National Atomic Energy Authority, or to the applicant's Member State Permanent Mission to the IAEA in Vienna, Austria) for their approval and signature (stamp).

After this, the Permanent Mission will then forward the approved request to [Official Mail](#), the International Atomic Energy Agency, P.O. Box 100, Vienna International Centre, A-1400 Vienna, Austria. You will then receive an email from the IAEA with instructions on how to download the simulator from the IAEA's SharePoint website.

Participants are asked to bring their laptops with the iPWR SMR simulator installed.

Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
 - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
 - b. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
 - c. Search for the relevant technical cooperation event (EVT2401849) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

NOTE: Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to InTouchPlus.Contact-Point@iaea.org.

Should online application submission not be possible, candidates may download the nomination form for the meeting from the [IAEA website](#).

NOTE: A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

Administrative and Financial Arrangements

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency AX Travel Management, or a travel allowance, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

Disclaimer of Liability

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Note for Female participants

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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