



Monthly Bulletin

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OCTOBER 1ST, 2018

ISSUE NO. 5

In this bulletin

This issue of the bulletin is similar to the one of the previous month, except for the deletion of a few courses already held and **the addition of some information** for others. There are still **plenty of places** in interesting courses, while **courses by NTEC and University of Manchester are saturated**. So, please diversify your choices.

We now suggest that, **if you apply for support by the ENEN+ project, you prompt the Course Providers about this, soon at the time of being contacted**. This may help in getting support.

Thanks for your interest in our courses !

[Link to the course application page](#)

[Link for asking support for mobility to the ENEN+ project](#)

PLEASE LOOK ALSO AT THE COMPLETE OFFER FOR LAST MINUTE SELECTION OF COURSES ALREADY ADVERTISED

COMING SOON COURSES

[2-days Workshop on "Proliferation Resistance Methodologies for Nuclear Installations"](#)

SCK•CEN (Brussels),
Belgium
(November 22-23, 2018)



WORKSHOP CONTENT

The goal of this workshop is to apply and compare different proliferation resistance methodologies in a case study of a nuclear installation.

The characteristics of the installation taken as case study is presented at the start of the workshop. Then, the principles of several proliferation resistance methodologies are introduced and realistic examples are shown. After the introduction of each methodology a table-top exercise is prepared to give the possibility to the participants to apply directly the methodology.

Large sections of the workshop are dedicated to the application of the different methodologies to the specific case study and discussion of the results among the participants. A comparison of the methodologies is foreseen at the closing of the workshop.

REQUESTED BACKGROUND

This workshop is intended for professionals that are involved in nuclear safeguards tasks in their organization. Knowledge of nuclear safeguards is required to attend the workshop. The principles needed to apply each proliferation resistance methodology are presented before the table-top exercise.

APPLY HERE

In order to apply for this course, please use the application form on the ENEN website here: <http://www.enen.eu/en/projects/annette/annette-project-courses1.html>

Please enter **Workshop on "Proliferation Resistance Methodologies for Nuclear Installations"** as the course name and **ESARDA** as the course provider.

COURSE FEE

The course is offered as part of the ANNETTE-project and there is no course fee for the participant. However, participants will need to pay for travel, accommodation and meals.

CONTACT

For questions and further information, please contact:

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[Principles of Radiation Protection.](#)
[International Framework.](#)
[Regulatory Control \(e-learning\)](#)

**Course Outline and Content:**

The course is aimed to provide advanced knowledge of fundamental radiation protection principles applied to planned, emergency and existing exposure situations. The content will offer the theoretical and practical understanding of the European and international radiation protection legal framework, the regulatory control concepts to achieve an appropriate standard of radiological protection.

The programme is addressed to:

Radiation Protection Experts or Officers, Medical Physics Experts, Nuclear specialists, Specialists from other disciplines demanded in the nuclear workforce and to those who are interested in continuous professional development in order to cover present needs in different sectors of nuclear energy and ionizing radiation applications.

The course is structured as follows:

Unit 1 – Principles of radiation protection (1 ECTS)

Unit 2 – International Framework. Regulatory Control (1 ECTS)

Detailed Learning Outcomes are reported at this link

Requested Background:

The learner is assumed to have basic knowledge of Physics, Engineering (EQF Level 6).

Lecturers:

Mrs. Gabriela Rosca-Fartat

Mr. Gabriel Stanescu, PhD

"Horia Hulubei" National Institute for Physics and Nuclear Engineering (IFIN – HH)

Nuclear Training Centre

30 Reactorului, RO-077125, Bucharest-Magurele, Romania

Method of Delivery:

Asynchronous e-learning. Links to the course material will be provided at a later stage.

Final Examination: multiple-choice test

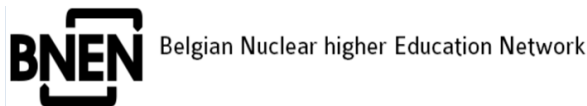
Date of availability of the course material: 15 September 2018

STILL FREE PLACES IN AN INTERESTING HANDS-ON COURSE

**CZECH TECHNICAL UNIVERSITY IN PRAGUE**

[Course on VR-1 Reactor \(new date being agreed with participants\)](#)

**THE FULL CALENDAR
OF BNEN COURSES
HAS BEEN PUBLISHED:
SPEED UP TO
RESERVE!**



THE BELGIAN NUCLEAR EDUCATION NETWORK
BNEN Courses: the full available programme proposed for ANNETTE in a modular fashion ([ACADEMIC CALENDAR](#))

- [Nuclear fuel cycle \(3 ECTS\)](#) (8-12 October 2018)
- [Radiation protection \(3 ECTS\)](#) (15-19 October 2018)
- [Nuclear thermal hydraulics \(5 ECTS\)](#) (3-14 December 2018)
- [Nuclear reactor theory \(6 ECTS\)](#) (7-25 January 2019)
- [Safety of nuclear power plants \(5 ECTS\)](#) (11-22 February 2019)
- [Advanced nuclear reactor physics and technology \(3 ECTS\)](#) (11-15 March 2019)
- [Advanced nuclear materials \(3 ECTS\)](#) (18-22 March 2019)
- [Advanced radiation protection radiation ecology \(3 ECTS\)](#) (19-23 November 2018)
- [Advanced courses of the nuclear fuel cycle \(3 ECTS\)](#) (25-29 March 2019)
- [Nuclear and radiological risk governance \(3 ECTS\)](#) (1-5 April 2019)

**STILL COLLECTING
APPLICATIONS FOR
FPS@KIT SCHOOL**



COURSES OFFERED BY THE FRAMATOME PROFESSIONAL SCHOOL (FPS) AT KIT FOR ANNETTE

- [Reactor Exercises](#) (on agreement: 4th quarter of 2018)
- [Design Basis Accidents for Light Water Reactors and Numerical Simulation Tools](#) (April 2019)
- [Computational fluid dynamics with OpenFoam](#) (November 2018)
- [Design of Pipelines against Earthquake Loads](#) (on demand)

AN EXTENDED OFFER BY FPS@KIT FOR ANNETTE (TENS OF PLACES)

- Monte Carlo criticality and shielding calculations (12.11. - 16.11.2018) ([link](#));
- Reactor physics calculations with deterministic methods ([link](#));
- Beyond-design accidents, core-melt accidents ([link](#));
- Coupled Neutron Kinetics /Thermal Hydraulic Codes for Safety Assessment of Nuclear Power Plants (10.12. - 14.12.2018) ([link](#));
- Thermohydraulic Stability Analysis ([link](#));
- Technology and Management of the Decommissioning of Nuclear Facilities (10.09. - 14.09.2018) ([link](#));
- Radiolytic Gas Management in Boiling Water Reactors ([link](#));
- Stress Analysis ([link](#));
- Light Water Reactor (LWR) core design and fuel management ([link](#));
- Light Water Reactor (LWR) core feedback and transient response ([link](#)).

[For a general description of course conditions, look at this link](#)

<p>CEA-INSTN COURSES WITH NEW DATES</p>	 <p>Courses by CEA INSTN (FREE of CHARGE FOR ANNETTE)</p> <ul style="list-style-type: none"> ▪ PWR operation and safety (3-7 December 2018) Click here for the Learning Outcomes ▪ Thermal Hydraulics and safety (14-18 January 2019) ▪ Materials for Nuclear Reactors (21-25 January 2019) ▪ Reactor core physics: Deterministic and Monte Carlo methods (21-25 January 2019) ▪ Nuclear fuels for light water reactors and fast reactors (28 January - 1 February 2019) ▪ Neutronics for light water reactors (11-15 March 2019 and 18-22 March 2019) Click here for the Learning Outcomes
<p>INFORMATION ON RECENTLY ADVERTISED COURSES</p>	 <p style="text-align: center;">REMINDERS</p>
<p><u>COURSE BY UPPSALA UNIVERSITY</u></p>	 <p>UPPSALA UNIVERSITET</p> <p style="text-align: center;">PLACES FREE: PLEASE HURRY UP !</p> <p style="text-align: center;"><u>Course on Human-Technology-Organisation/Human Factors for Nuclear Safety including Virtual Reality Resources as part of Safety Culture (6 ECTS)</u> (November 5, 2018, to December 21st, 2018)</p>
<p><u>INTER-SEMESTER COURSE ON "NUCLEAR FUEL FROM CRADLE TO GRAVE"</u> <u>(ECTS assignment done by individual universities)</u></p> <p><u>SINGLE AND TWO-PHASE THERMAL-HYDRAULICS - for nuclear applications</u> (e-learning)</p>	  <p style="text-align: center;"><u>KIT (from 8th October until 12th October 2018)</u></p>  <p style="text-align: center;"><u>SINGLE AND TWO-PHASE THERMAL-HYDRAULICS</u> The theoretical lectures and exercise material are already posted. Videos for theoretical lectures and applications fully available.</p>
<p><u>MASSIVE OPEN ONLINE COURSE ON NUCLEAR SAFETY CULTURE</u></p> <p>By TECNATOM and UNED</p>	 <p>MOOC (Massive Open Online Course):</p> <p><u>Introducing safety culture and its application to the nuclear field</u> A completely online, free, international course. General information about the MOOC is available in the link above. 30 h of participant work – 1 ECTS Divided in 4 independent NOOCs (Nano Open Online Courses):</p>

[NOOC I. What is safety culture?](#)
[NOOC II. Understanding Nuclear Safety Culture](#)
[NOOC III. Developing leadership for safety](#)
[NOOC IV. Refreshing Nuclear Basics](#)

Open now the free registration, by clicking on each NOOC above.

Provisional starting date: February 4th 2019, we are actually in the production process!
If you want to receive information about the MOOC/NOOCs, please fill the form [here](#)

We highly thank those advertising this initiative within the nuclear sector, but as well towards professionals from other industries (specially high-risk industries), as well as master students of nuclear and other technical studies, to gather a varied audience to enhance global networking and a collaborative learning experience. This course will allow a research study and its dissemination is crucial to achieve massive participation from the main target groups.

**[COURSE ON
RADON AND ITS
RADIOLOGICAL IMPACT](#)**
IFIN – HH
(22 - 24 October 2018)



[RADON AND ITS RADIOLOGICAL IMPACT](#)

**European Nuclear
Education Network
Association**



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GENERAL INFO:

Web page of ANNETTE Courses

<http://www.enen.eu/en/projects/annette/annette-project-courses1.html>

Web page for course application:

<http://www.enen.eu/en/projects/annette/eoi1.html>



LINK TO COURSE LIST



LINK TO THE APPLICATION FORM

Web page concerning the grants of the ENEN+ project

<https://plus.enen.eu/grants/>