

LESSONS LEARNED
from
Education in Nuclear Engineering
at Hanoi University of Technology

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LESSONS LEARNED BY HUT

- **Initiative of First Minister of MHE of VN**
- **1962-1963: Send young people abroad for HE on Nuclear Sciences and Nuclear Engineering**
- **1968-1969: prepare ground for establishing the Department of Nuclear Physics and Engineering**
- **1970: Official establishment of DO NPE at HUT**
- **1970-1993: best students of HUT came to DO NPE**
- **Since 1970: DO NPE introduced NDT, improved nuclear geophysical applications**

L1. To find out a close relation between the course to be studied and the urgent short term and/or long term demands of the country is the most important guarantee for a successful nuclear education programme.

LESSONS LEARNED BY HUT

- **1968-1970:** Goals: + To develop peaceful applications of atomic energy in VN + To train up engineers on nuclear electronics for supporting the first objective + To prepare initial manpower for introduction of Nuclear Power to VN.
- **1994-1999:** No students on NPE!
- **Feb 2000:** DO NPE was renamed as DO NEEP= Goals: + To develop peaceful applications of atomic energy in VN + To prepare initial manpower for introduction of Nuclear Power to VN + To develop utilizations of nuclear and other physical techniques for environmental monitoring and impact assessment.
- **From 2000 up to now:** 7-8 new students per year
- **2003-2004:** among 20 HUT's excellent students: 1 from DO NEEP

L2.

To establish proper objectives aiming to satisfy the above-mentioned demands of the country is an important guarantee for the success.

LESSONS LEARNED BY HUT

Education Programme of DO NEEP:

Stage 1: was set up in 1969-1970

Stage 2: was set up in 2000 + +

Stage 3: under construction

(Tentative programme = Table 2. in POSTER)

L3.

Education programme must provide student knowledge which is of:

- a. **wide-enough profile** (for heightening capacities of seeking jobs of graduated students in today labor market in the country);
- b. **High-enough quality** (for better integration and successful co-operation).

LESSONS LEARNED BY HUT

L4.

To train-up teaching staffs of high consciousness of responsibility and of a quality as high as possible is a key guarantee for the success.

LESSONS LEARNED BY HUT

- 1981-1983: First IAEA TC project.
- 2002: Technical support from Co-operation Project between HUT and Group of Belgian Universities (VLIR).
- 2003-2004: IAEA TC Project VIE/0/010 → extension for 2005-06?
- 2004-2005: BNEN grant for first young assistant lecturer of HUT to participate in Master Courses on Nuclear Engineering in Mol, BELGIUM.

L5.

Effective international assistances and co-operations are of **extremely high importance** in heightening level of teaching staffs as well as in development of technical base of the nuclear education programme of DO NEEP.

LESSONS LEARNED BY HUT

L6.

To have a practical plan for using the well trained-up people is necessary for the success.

LESSONS LEARNED BY HUT

L7.

For a developing country such as Vietnam, it is necessary to have a unified programme of actions of all the institutions related in nuclear education of the country for meeting its short term and/or long term demands.

Realization of such necessity requires close and flexible co-operations of the universities and research institutes between themselves as well as with the state organ authorized in peaceful applications of atomic energy of the country.

For us:

Very good model for Education in Nuclear Engineering = Consortium BNEN = SCK-CEN + 5 Universities = International Centre of high level.





ANENT

**For kind memory of the Members of
the First Technical Meeting of Asian Network
for Education on Nuclear Technology
(23 – 27 Feb 2004, Kuala Lumpur, Malaysia)**

**From Phung Van Duan
(HUT, Vietnam)**

Thank You for your attention!

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**Let's go together
to more fruitful cooperation
in Education on Nuclear Engineering!**