

ADVANCED NUCLEAR SECURITY WORKSHOP FOR INDIAN UNIVERSITIES

January 6 - 9, 2015

In collaboration with
Partnership for Nuclear Security (U. S. Department of State)
Nuclear Security Science & Policy Institute (Texas A&M University)



ORGANIZING COMMITTEE

Faculty Convenor:

Mr. Vikram Rathore
Vikram.rathore@sot.pdpu.ac.in
Mr. G. Vaitheeswaran
g.vaitheeswaran@sot.pdpu.ac.in

EVENT COORDINATOR

Mr. Vipin Shukla
Email: vipin.shukla@pdpu.ac.in
Phone No: +91-9427963637

Student Co-ordinators:

Kushal Modi : +91 9016612777
Vrushank Joshi : +91 9925231520

CONDUCTED BY



SPONSORED BY



PDDPU

PANDIT DEENDAYAL PETROLEUM UNIVERSITY

E-mail: nuclear@pdpu.ac.in | Website: www.sot.pdpu.ac.in



PDDPU

PANDIT DEENDAYAL PETROLEUM UNIVERSITY





INVITATION

Pandit Deendayal Petroleum University, with the vision of creating a pool of world class energy professionals, has taken an initiative to provide a platform for knowledge sharing in the field of Nuclear Security. Department of Nuclear Energy, School of Technology, PDU invites you to four days Advanced Nuclear Security Workshop.

PATRONS

Dr. H.B. Raghavendra
Director General (I/C)
PDU, Gandhinagar

Shri Palak Sheth
Director
Planning and Development
PDU Gandhinagar

CORE COMMITTEE COORDINATOR

Dr. Balamurali Krishna Mayya K.
Assistant Professor
PDU Gandhinagar

VENUE

Pandit Deendayal Petroleum University,
Off. Koba - Gandhinagar Highway, Raisan,
Gandhinagar - 382 007, Gujarat, INDIA.

Learning Objective

This workshop is open to masters' degree students, in particular nuclear engineering students, but also to young professionals and International Relations / law students and faculty members who have attended the basic level nuclear security workshop held at IIT Kanpur, India. It aims at complementing nuclear engineering studies by including nuclear security in the academic curriculum. The basic aim of the course is to stimulate students' interests in nuclear security. The workshop addresses aspects of the efforts to create and improve nuclear security culture.

KEY TOPICS TO BE DISCUSSED

- The likelihood of nuclear terrorism and challenges of policy making
- Target Identification: Nuclear Sabotage Case
- Consequence Analysis
- Advisory Path Analysis and Multi-path Optimization
- Threat Assessment and Design Basis Threat
- Radiation Portal for Nuclear Security: Principles
- Introduction to the Portal Monitor Exercise
- Access Control & Contraband Detection
- Portal Monitor Building & Insider Threat of Nuclear Material Theft
- Consequence Management
- Risk Analysis with Calculation Examples

