



सत्यमेव जयते
Government of India



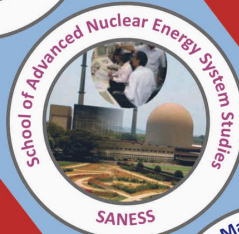
Department of Atomic Energy

GLOBAL CENTER FOR NUCLEAR ENERGY PARTNERSHIP

Promoting safe, secure and sustainable nuclear energy for the service of mankind through global partnership

MISSION

- To conduct research, design and development of nuclear systems that are intrinsically safe, secure, proliferation resistant and sustainable
- To organize training, seminars, lectures and workshops on topical issues by Indian and International experts, in order to develop a pool of trained human resource
- To promote global nuclear energy partnership through collaborative research and training programs
- To establish the five specialized schools



School of Advanced Nuclear Energy System Studies(SANESS)

MISSION: to pursue design studies and analysis of advance nuclear energy systems with features to enhance intrinsic safety, security proliferation resistance and sustainability.

Programs:

- Reactor Systems and Applications
- Accelerator Driven Systems
- Emergency Planning and Management Studies
- Global Database
- Fuel Cycle Studies Including Thorium Fuel Cycle
- Risk Studies
- Sustainability Parameter Assessment

School of Nuclear Security Studies (SNSS)

MISSION: To impart training to security agencies on application of physical protection system and response procedure, to enhance physical security of nuclear facilities by developing and deploying most modern technological tools including information security and to provide facilities for test and evaluation of sensors and systems used for physical security.

Programs:

- Formal education and training
- Personnel reliability studies
- Physical protection system analysis and evaluation tools
- Systems for personnel and material access control & intrusion detection
- Explosives and other contraband detection
- Development of technology tools for physical security
- Vulnerability studies
- Nuclear security computer simulation
- Surveillance, video analytics and advanced video tools

School of Radiological Safety Studies(SRSS)

MISSION: To carry out research in the field of radiological safety, radiation dosimetry, environmental radiation protection, impact of nuclear and radiological emergencies, radiological impact assessment studies, to impart training and certification of personnel including first responders in radiation protection and to maintain and update radiation protection standards.

Programs

- To identify and focus on radiological issues of concern in the public domain
- Development of state of the art radiation monitoring systems
- Dispersion modeling and impact assessment of radioactivity releases
- Decision support systems for nuclear emergency management
- Training for the first responders on response to radiological emergencies
- Study on the impact of nuclear and radiological emergencies

School of Nuclear Material Characterization Studies(SNMCS)

MISSION: To promote research and development in nuclear material characterization with regards to nuclear material accounting and control, education and training in effective implementation of safeguards and nuclear forensics.

Programs:

- Nuclear material characterization
- Nuclear material control and accounting practices
- Nuclear forensics
- Non-destructive assay methods for nuclear materials
- Training in nuclear safeguards

School for Applications of Radioisotopes and Radiation Technology (SARRT)

MISSION: To provide state of the art research, development, demonstration and training facilities in the application of radioisotopes and radiation technologies in areas of healthcare, agriculture and food.

Programs:

- Radioisotopes and radiation technologies for societal benefits, capacity building, skill development and commercial deployment
- Radiation processing for improving food security, ensuring food safety and overcoming quarantine barriers to international trade
- Microbial decontamination of herbal and nutraceutical products and sterilization of healthcare and medical products
- Isotope technology in industrial radiography and tomography
- Waste water treatment for reducing bio and chemical burden
- Chemical/polymer technology of advanced materials using radiations
- Radiation medicine / radiopharmaceuticals



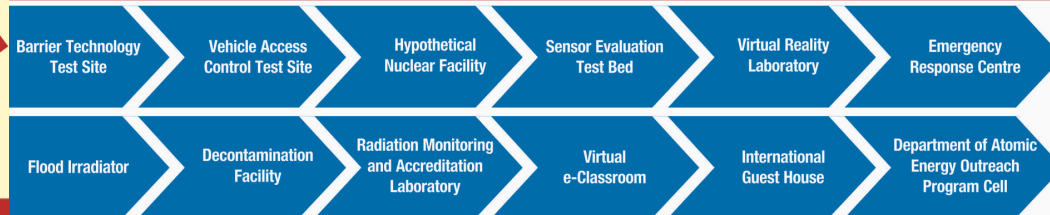
Project Directorate:

145A, South Block, Central Secretariat, New Delhi-110001,
Ph: 011-23014582

Site Address:

GCNEP, Village Jasaur-Kheri, Bahadurgarh-124505
Ph: +91 1276 225200

Institute Infrastructure and Facilities



Web Portal: www.gcnep.gov.in

Helpdesk: Information, Suggestions and Feedback: help@gcnep.gov.in