



Module 7:

Nuclear Fuel Cycle

Dr. Mrs S.B.Roy

ABOUT INSTRUCTOR:

Dr. Mrs S.B.Roy did her B Tech. Chemical Engineering from Calcutta University in 1981 and obtained Doctorate degree in Chemical Engineering from IIT Mumbai in 2001. She joined the 25th batch of BARC training school in 1981 and later joined Uranium extraction Division of BARC in 1982. She was instrumental in development of

- (i) Uranium Fuel of different grades for special applications,
- (ii) process for recovery of Uranium from secondary sources like Monazite,
- (iii) Research, facility development and production management of specific quality Nuclear Fuel materials for various Indian Research Reactors,
- (iv) Development and implementation of large scale metallo-thermic reduction processes for Nuclear Grade Uranium Metal production.

As Director Chemical Engineering Group she provided strategic direction, technical guidance and Human Resource Development to the implementation of various programmes undertaken by different Divisions of the group in the areas of nuclear materials. Additionally, she provided guidance to other units of DAE on research and project activities as member Nuclear Fuel Complex Board (NFC, Hyderabad) and Heavy Water Board (HWB, Mumbai). Post superannuation she served as Raja Ramanna Fellow, DAE and later as visiting scientist till November 2020, wherein she contributed in the field of Safety review and Human Resource Development.

MODULE PLAN:

1. Nuclear Fuel Cycle - 6 Lectures