



# Module 4: Applications of Radioisotopes in Agriculture and Food Technology

**Dr. A.K. Sharma**

## **ABOUT INSTRUCTOR:**

After completing Master's degree in Microbiology from NDRI, Karnal, **Dr. Arun Kumar Sharma** joined Training School at Bhabha Atomic Research Centre (BARC) in 1975 (19th batch). He graduated in Biology & Radiobiology disciplines in 1976, and joined Food Technology Division, BARC as Scientific Officer Grade 'C'. He got his Doctoral degree in Biochemistry from Mumbai University in 1984. He received training at the Royal Institute of Quality Control of Agricultural Products (RIKILT), NL, in 1989, and was a DBT Post-doctoral Associate at University of California, Riverside, USA (1990-1991).

At BARC he was promoted to Scientific Officer Grade 'H' in 2001. In 2001 he was appointed Project Manager, KRUSHAK Irradiation Facility (2001-2007). He headed Food Technology Division, BARC (2001-2014), and was DAE Outstanding Scientist (2008-2014), Senior Professor (Adjunct), Homi Bhabha National Institute (HBNI), Mumbai (2008-2014), and later Raja Ramanna Fellow at DAE from 2018-2021. He has been a recipient of Indian Nuclear Society Award 2006, and four DAE Group Achievement Awards for developing various technologies at BARC. He was the National Project Coordinator at the International Atomic Energy Agency, and also FAO/WHO/IAEA Expert on Food Irradiation.

After superannuation from BARC he joined FSSAI as a Consultant (2015-2018). He continued as Honorary Consultant (2018- 2021), and currently he is Expert Mentor at FSSAI. He has been a member of several national Expert Committees, Selection Committees, and Research Advisory Committees. He is a Fellow of the National Academy of Agricultural Sciences, and Maharashtra Academy of Sciences. He has more than 400 publications in international journals.

## **MODULE PLAN:**

### **1. Applications of Radioisotopes in Agriculture and Food Technology - 5 Lectures**