

*Report on the
111th DAE-BRNS-IANCAS National workshop and Outreach Program on
“Nuclear Sciences and Applications of Radioisotopes”
at
School of Basic Sciences, The Assam Kaziranga University, Jorhat
Assam, India, during September 15-19, 2025*

The *111th DAE-BRNS-IANCAS National Workshop and Outreach Program on “Nuclear Sciences and Applications of Radioisotopes”* was organized at the School of Basic Sciences, The Assam Kaziranga University, Assam, during *September 15-19, 2025*. Dr. A.C. Deb was the Workshop coordinator and Dr. Nimai Pathak was the practical coordinator of the Workshop. Prof. Nabajyoti Saikia, Dean, School of Basic Sciences, Kaziranga University was the Convener of the Workshop. There were 82 registered participants in the Workshop which included faculty members, research scholars and post graduate students from various institutes/university of Assam, and neighboring states including participant from IIT-Kharagpur.

Dr. Y. K. Bhardwaj, Associate Director, RC&IG, BARC inaugurated the Workshop. In his inaugural address, Dr. Bhardwaj described about various activities of IANCAS like organizing symposia, national Workshops and IANCAS Awards for researchers/scientists working in the field of nuclear and allied sciences. He also mentioned about the thematic bulletins published by IANCAS which are available for download from its website i.e www.iancas.org.in.

Dr. A. C. Deb, Workshop coordinator, briefly explained the aim of organizing the Workshop and structure of the Workshop. He also emphasized for organizing this Workshop especially in the north-eastern zone of India where immense publicity of the nuclear sciences in general and application of radio isotopes in particular for the benefit of masses are esteem necessary.

Welcoming the participants, Vice Chancellor, Prof. P. K. Mishra described the Workshop as a golden opportunity for researchers, scholars and students of the North East to engage with leading experts in nuclear science, bringing critical knowledge closer to young minds and empowering them to explore impactful research avenues and career paths.

Later in his key note address, Dr. Bhardwaj described about programs of Department of Atomic Energy, emphasizing the application of radiation and radioisotopes in healthcare, food and industry etc.

The technical program of the Workshop (enclosed) comprised of 14 lectures and 4 experiments. The lectures were held during the morning sessions and the afternoon sessions were reserved for the practicals. Experiments with G.M. counter, NaI(Tl) scintillation gamma ray spectrometer and radioimmunoassay were conducted.

All the lectures were received very well by the participants, which was evident from the questions & answer session following each lecture and subsequent lively discussions.

As part of the outreach activities, the resource team had visited two nearby schools namely (i) Kendriya Vidyalaya RRL, Jorhat and (ii) DON BOSCO Hr. Sec. School, Baghchung, Jorhat to demonstrate the significance of nuclear science through lectures, live experiments and interactive sessions with both students and teachers.

On the final day at the end of technical session, a quiz was conducted on the topics discussed in the lectures during the 5 days Workshop and the response & participation of students and research scholars were overwhelming. Valedictory function was held in the afternoon of September 19, 2025 and Dr. S. Jeyakumar, Head, RCD, BARC was the Chief Guest. Dr. M. Bora, Regional Director, Assam Agricultural University was the Guest of Honor.

A few participants, including students, shared their impressions about the Workshop. Dr. S. Jeyakumar and Dr. A. C. Deb responded to the feedbacks and emphasized the participants to apply radioisotopes in their research work. They appealed the participants to inform the people about the societal benefits of nuclear energy and radioisotopes.

On behalf of IANCAS, NaI (TI) Detector was donated to the host-institute for their academic use. All the participants were given workshop participation certificates. The Workshop was concluded with a vote of thanks by Prof. Prasanta Jyoti Gautom.

The workshop was well covered by local media and 5 TV news channels including News 24 Assam, NE News, DD (NE), PUHOR LIVE8, TIMES Assam. The news of IANCAS workshop in Kaziranga University was published in 4 local news papers namely (i) Dainik Janambhumi (Assamese), (ii) Dainik Pratidins (Assamese), (iii) Assam Tribune (English), & (iv) North East Times (English) (enclosed).

**111th DAE BRNS-IANCAS NATIONAL WORKSHOP & OUTREACH PROGRAM ON
NUCLEAR SCIENCES AND APPLICATIONS OF RADIOISOTOPES**

(September 15-19, 2025)

**The Assam Kaziranga University
Jorhat, Assam**

Technical Program

Time	Lecture / Title	Speaker
Sep. 15, 2025		
10:00 – 11:00	Inauguration Session	
11:00 – 11:15	Tea break	
11:15 – 12:15	L1:Keynote Speaker: Nuclear Technology for Social Prosperity	Dr. Y.K. Bhardwaj
12:15 – 13:15	L2: Introduction to Radioactivity and Decay	Dr. (Smt) Aishwarya S Kar
13:15 – 14:15	Lunch	
14:15 – 14:45	L3: Introduction to Practicals	Dr. Nimai Pathak
14:30 – 16:30	Introduction of guests with participants and formation of groups for practical.	
Sep. 16, 2025		
10:00 – 11:00	L4: Interaction of Radiation with Matters	Dr. Nimai Pathak
11:00 – 11:15	Tea break	
11:15 – 12:15	L5: Radiation Detection and Measurements	Dr. Nilesh S. Tawade
12:15 – 13:00	L6: Chemistry of actinides	Dr. (Smt) Aishwarya S Kar
13:00 – 14:00	Lunch	
14:00 – 16:00	Hands on Experiments with Nuclear Detectors	
Sep. 17, 2025		
10:00 – 11:00	L7: Nuclear Structure and Stability	Dr. Kaushik Sanyal
11:00 – 11:15	Tea break	
11:15 – 12:15	L8: Radioisotopes in Research and Development	Dr. Chandan Kumar
12:15 – 13:00	L9: Radiation Safety and Setting up a Radiological Laboratory	Shri. Uday K. Thakur
13:00 – 14:00	Lunch	
14:00 – 16:00	Hands on Experiments with Nuclear Detectors	
Sep. 18, 2025		
10:00 – 11:00	L10: Nuclear Reactors	Dr. A. C. Deb
11:00 – 11:15	Tea break	
11:15 – 12:15	L11: Application of Radioanalytical Techniques in Research	Dr. Kaushik Sanyal
12:15 – 13:00	L12: DAE Technologies for societal applications	Dr. Ravindra Bansal
13:00 – 14:00	Lunch	
14:00 – 16:00	Hands on Experiments with Nuclear Detectors	

Sep. 19, 2025		
10:00 – 11:00	L13: Mandate of DAE and Carrier Opportunities	Dr. S. Jeyakumar
11:00 – 11:15	Tea break	
11:15 – 12:15	L14: Radioisotopes in Health care and Industry	Dr. Chandan Kumar
12:15 – 13:00	L15: Quiz competition	Dr. Nimai Pathak
13:00 – 14:00	Lunch	
14:00 – 15:30	Valedictory, Instrument Donation & Distribution of Participation Certificates.	

Experiments:

1. GM Counter (Plateau, Dead time & Statistics)

Dr. Kaushik Sanyal

Shri Uday K. Thakur

2. NaI(Tl) (Energy Calibration)

Dr. (Smt) Aishwarya S. Kar & Dr. Nimai Pathak

3. Radio-immuno Assay –

Dr. Chandan Kumar (& Dr. A.C. Deb for additional help if required)

4. NaI(Tl) - (Attenuation)

Dr. Nilesh S Tawade (& Dr. A.C. Deb for additional help if required)

DAE's outreach activities

1. Kendriya Vidyalaya RRL, Jorhat, on September 16, 2025 at 9:30 a.m

(Dr. A.C.Deb , Dr. (Smt) Aishwarya S. Kar and Dr. Kaushik Sanyal)

2. DON BOSCO Hr. Sec. School, Baghchung, Jorhat on September 18, 2025 at 9:30 a.m

(Dr. Nimai Pathak, Dr. (Smt) Aishwarya S. Kar, Dr. Nilesh S Tawade and Shri Uday K. Thakur)

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