

Bajaj College of Science, Wardha

INNERVATE - 2023 REPORT

NATIONAL WORKSHOP

ON

“BENEFICIAL EFFECTS OF RADIATION TECHNOLOGY AND INDIAN ENERGY PROGRAMME”

INNERVATE-2023 was organized in the Gandhi Memorial Hall of Bajaj College of Science, Wardha, under which, One Day National workshop was conducted on the topic “**Beneficial Effects of Radiation Technology and Indian Energy Programme**” on **12th September 2023**. The workshop was organized by Department of Physics, Bajaj College of Science in association with Indian Association of Radiation Protection (IARP) a unit of Bhabha Atomic Research Centre (BARC), Mumbai. The One Day National Workshop was supported by Indian Association of Physics Teachers (IAPT- RC-08), Lucknow.

The participants for this national workshop included faculties and students from three different universities in the region: The Rashtra Sant Tukadoji Maharaj University Nagpur, The Sant Gadge Baba Amaravati University and The Gondwana University Gadchiroli. A total of 118 Participants from these three universities registered for the workshop. About 47 faculties of Bajaj College of Science also actively participated in the workshop. Hence nearly 165 participants were enlightened on the topic and benefitted from it.

Chronology of the Events:

- **Registration and Breakfast: 8.00 to 9.00 AM**

- **Inauguration of the National Workshop: 9.00 to 9.30 AM**

The workshop was inaugurated at the hands of Shri. Sanjay Bhargava, Chairman Shiksha Mandal, the parent organization of Bajaj College of Science. The Subject Experts and Resource Persons Dr. S Murali, Senior Scientist BARC and Secretary IARP, Dr. V Natrajan, Scientist IARP, Shri S.Patil, member IARP and Convener of the National Workshop Dr. Sanjay H Bagade occupied the dais. Importance and relevance of the topic was highlighted during the session.

- **Lecture Sessions: 10.00 AM to 1.30 PM**

A series of lecture sessions were held by the resource persons and subject experts from BARC and IARP. The basics of Nuclear Physics, benefits and hazards of nuclear radiations, detection of nuclear radiation, different methods for protection from nuclear radiations were discussed in the lecture sessions. Information regarding the Indian Nuclear Energy Programme and beneficial effects of radiation technology was also given to the participants in the workshop. Dr. G V Lakhotiya and Dr. S R Tiple

coordinated different lecture sessions during the National Workshop which were as follows.

- L1: 'Radiation Quantities, Units and Effects' – Dr. Natrajan, IARP
- L2: 'Principle of Radiation Detection' – Dr. Natrajan, IARP
- L3: 'Radiation Protection & Monitoring' – Shri. Sanjay Patil, IARP
- L4: Nuclear Energy Programme, Application of Radiation Technology – Dr. S. Murali, IARP
- L5: Beneficial Effects of Radiation Technology - Dr. S. Murali, IARP
- **Lunch Break: 2.00 to 2.30 PM**
- **Practical Sessions: 2.45 to 3.45 PM**

Practical & Demonstrations – Cyclic Manner (4): 30 min Sessions

A: Activity estimation

B: Radiation Monitoring kits, Personnel Protective Gears

A practical and demonstration session was organized for the participants where the knowledge of commonly used equipment and instruments in the field of Nuclear Physics was given. Radiation Monitoring kits, Personnel Protective Gears were also displayed for the participants.


- **Special Lecture: 4.00 to 4.30 PM**
A Special Lecture on Scientific Career Opportunities was delivered by Dr. S Murali, IARP
- **Valedictory Function: 4.30 to 5.00 PM**
The valedictory function was attended by the participants where they expressed their views about the workshop. Feedback forms about the workshop were collected from the students. Dr. G V Lakhotiya conducted the valedictory function while Dr. M M Yerpude proposed the vote of thanks. The workshop ended with National Anthem.
- **Financial Assistance Received:**

Sr.No	Organization	Amount
1.	Indian Association of Radiation Protection (IARP)	20000
2.	Indian Association of Physics Teachers (IAPT)	15000

Department of Physics, Bajaj College of Science, Wardha gracefully acknowledges the financial assistance received from IARP and IAPT for the workshop and is grateful to them for their support and guidance.



Convener
INNERVATE-2023
(National Workshop)
Head / Incharge
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Principal
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