

Government of India  
Bhabha Atomic Research Centre  
Radiological Physics & Advisory Division  
CT & CRS, Anushaktinagar, Mumbai - 400 094

Ref: BARC/RP&AD/NG-143/432 /2017

February 16, 2017

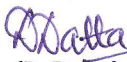
**Training cum Certification Course on Radiation Safety Aspects of Nucleonic Gauges (NG - 143)**  
February 27 - March 06, 2017; Venue: Room No: 414, CT & CRS, Anushaktinagar, Mumbai - 400 094

**A. Lectures**

**Topic**

**Faculty**

Basic Radiation Physics (1)	:	Narendra Rawat
Interaction of Radiation with Matter (1)	:	Vandana Shrivastava
Radiation Quantities & Units (1)	:	Rupali
Principles of Radiation Detectors (2)	:	Subhalaxmi Mishra
Radiation Monitoring Instruments & Measurements (1)	:	Sridhar Sahoo
Biological Effects of Ionizing Radiation (1)	:	Usha Yadav
Operational Exposure Limits (1)	:	Munish Kumar
Radiation Hazard Evaluation & Control (3)	:	R. S. Vishwakarma
Orphan Radiation Sources & Potential Radiological Threats (1)	:	<b>RSSD, BARC</b>
Types of Nucleonic Gauges (2)	:	Ravi Chilkulwar
Safety Standards for Design of Nucleonic Gauges (1)	:	<b>AERB</b>
Regulatory Aspects of Radiation Safety (1)	:	<b>AERB</b>
Unusual Occurrences (1)	:	<b>AERB</b>
Procedure of Transport of Radiation Sources (1)	:	<b>AERB</b>
<b>B. Group Discussion</b>	:	R. S. Vishwakarma/Sridhar Sahoo
<b>C. Practical Demonstration</b>	:	
Inverse Square Law & Radiation Shielding	:	R. S. Vishwakarma + Arghya C
Radiation Monitoring Instruments	:	P. K. Kale
<b>D. Written &amp; Viva-voce examinations</b>	:	Examination Committee
<b>E. Convenor, Board of Examination</b>	:	T. Palani Selvam
<b>F. Course Co-ordination</b>	:	T. Palani Selvam

  
(D. Datta) 16.2.2017  
Head, RP & AD

**Distribution:** All faculty members

**CC:** Dr. A. U. Sonawane, Head, RSD, AERB - *Requesting for nominating officers for delivering lectures and for participation in evaluating the candidates*

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**Schedule of Training cum Certification course on Radiation Safety Aspects of Nucleonic Gauges (NG-143)**  
**February 27 – March 06, 2017; Venue: Room No: 414, CT & CRS, Anushaktinagar, Mumbai – 400 094**

Date/Time	10:00 - 11:00 hrs	11:30 - 12:30 hrs	12:30 - 13:30 hrs	14:30 - 15:30 hrs	15:45 - 16:45 hrs
27-02-2017 <b>Monday</b>	Admission Formalities	Basic Radiation Physics	Interaction of Radiation with Matter	Radiation Quantities & Units	Principles of Radiation Detectors (1)
28-02-2017 <b>Tuesday</b>	Biological Effects of Ionizing Radiation	Operational Exposure Limits	Principles of Radiation Detectors (2)	Radiation Monitoring Instruments & Measurements	Radiation Hazard Evaluation & Control (1)
01-03-2017 <b>Wednesday</b>	Types of Nucleonic Gauges (1)	Types of Nucleonic Gauges (2)	Radiation Hazard Evaluation & Control (2)	Radiation Hazard Evaluation & Control (3)	Procedure of Transportation of Radiation Sources
02-03-2017 <b>Thursday</b>	Regulatory Aspects of Radiation Safety	Safety Standards for Design of Nucleonic Gauges	Unusual Occurrences	Discussion (AERB) Forms & Procedures	Discussion
03-03-2017 <b>Friday</b>	Orphan Radiation Sources & Potential Radiological Threats	Practical Demonstration <b>(Inverse Square Law &amp; Radiation Shielding)</b>		Practical Demonstration <b>(Radiation Monitoring Instruments)</b>	
06-03-2017 <b>Monday</b>	Written Examination <b>10:00 – 11:30 hrs</b>	Viva-Voce			

**Certificate Distribution: Tentatively at 18:00 hrs on Monday March 06, 2017**