

# Program Schedule

## CVSTA-2023

**DAE-BRNS-Course on Vacuum Science & Technology and its Application**

Theme “**Vacuum in Electron Beam Technologies**”

25<sup>th</sup> to 28<sup>th</sup> October, 2023

Venue: DAE Convention Centre, Anushaktinagar, Mumbai-400094

<b>Wednesday, October 25, 2023 (Day - 1)</b>	
<b>Registration - 08:00-09:00</b>	
<b>Inaugural Function - 09:00-09:50</b>	
<b>Welcome Address</b>	: Dr. Archana Sharma, Director, BTG Group, BARC
<b>About CVSTA-2023</b>	: Shri Sanjay Sethi, BARC, Convener, CVSTA-2023
<b>Address by President IVS</b>	: Shri Martin Mascarenhas, BARC, Chairman CVSTA-2023
<b>Address by Chief Guest</b>	: Dr. R. Tewari, Asso. Director, Materials Group, BARC
<b>Special Remarks by Guest of Honour</b>	: Shri Shrikrishna Gupta, Former Head TT&CD, BARC
<b>Vote of Thanks</b>	: Shri S.P. Dey, BARC, Secretary, CVSTA-2023
<b>High Tea - 09:50 -10:15</b>	
<b>L1</b> (10:15 to 11:10)	<b>Fundamentals of Vacuum Science &amp; Technology</b> Dr. K.G. Bhushan, EmA&ID, BARC
<b>L2</b> (11:15 to 12:10)	<b>Production of Vacuum (Part-1)</b> Dr. S.R. Ghodke, APPD, BARC
<b>L3</b> (12:15 to 13:10)	<b>Production of Vacuum (Part-2)</b> Shri Prathap K. Reddy, EmA&ID, BARC
<b>Lunch Break (13:10 – 14:00)</b>	
<b>L4</b> (14:00 to 14:55)	<b>Measurement of Vacuum</b> Shri Arindam Basu, IADD, BARC
<b>Tea Break (14:55– 15:15)</b>	
<b>P1</b> (15:15 to 17:15)	<b>Practicals on Vacuum Pumps &amp; Gauges</b> Shri Dev Ranjan Das, ATLAD, BARC
<b>Thursday, October 26, 2023 (Day - 2)</b>	
<b>L5</b> (09:00- 09:55)	<b>Vacuum System Design</b> Dr. M.N. Jha, APPD, BARC
<b>L6</b> (10:0 to 10:55)	<b>Materials, Fabrication &amp; Joining Techniques</b> Shri Tejinder P. Sabharwal, EmA&ID, BARC
<b>Tea Break (10:55 – 11:15)</b>	
<b>L7</b> (11:15 – 12:10)	<b>Vacuum System Design – Tutorials</b> Dr. K.G. Bhushan, EmA&ID
<b>L8</b> (12:15 – 13:10)	<b>Leak Detection</b> M/s Pfeiffer, Secunderabad, India
<b>Lunch Break (13:10 – 14:00)</b>	

Thursday, October 26, 2023 (Day - 2) Contd..	
P2 (14:00 – 14:55)	Practicals on Leak Detection EmA&ID
Tea Break (14:55– 15:15)	
P3 (15:15 to 17:15)	Practicals on Leak Detection EmA&ID
Friday, October 27, 2023 (Day -3)	
L9 (09:00- 09:55)	Vacuum Technology: A Plethora of applications & possibilities Dr. Nagaraj Alangi, ATLAD, BARC
L10 (10:0 to 10:55)	Vacuum for Analytical Instruments Dr. R. K. Bhatia, EmA&ID, BARC
Tea Break (10:55 – 11:15)	
L11 (11:15 to 12:10)	Vacuum for thin film applications Dr. (Smt.) Shashwati S. Yeram, TPD, BARC
L12 (12:15 to 13:10)	Vacuum Technology in Accelerators Shri K.V.A.N.P.S Kumar, RRCAT, Indore
Lunch Break (13:10 – 14:00)	
L13 (14:00 – 14:55)	Vacuum Technology in Cryogenics Shri Tejas Rane, CrTD, BARC
Tea Break (14:55– 15:15)	
P4 (15:15 to 19:00)	Industrial Visit (Electron Beam Centre, Kharghar, Navi Mumbai) Shri A.R. Tillu, APPD, BARC
Saturday, October 28, 2023 (Day -4)	
L14 (09:00- 09:55)	Theme Lecture: Vacuum in Electron Beam Technologies Dr. Namita Maiti, L&PTD Session Chair for theme lecture: Dr. S. Mukhopadhyay, Director E&IG
L15 (10:15 to 11:10)	Application of Vacuum in Metallurgy Shri Arbind Kumar, QAD, BARC
Tea Break (11:10 – 11:30)	
L16 (11:30 to 12:25)	Computational Methods for Vacuum System Analysis Shri S.P. Dey, ATLAD, BARC
(12:30 to 13:10)	Assessment Shri Anik Mazumder, ATLAD, BARC
Lunch Break (13:10 – 14:00)	
14:00-15:30 Valedictory function	
Address by Chief Guest	: Dr. P.K. Mohapatra, Associate Director, RC&I Group, BARC
Special Remarks by Guest of Honour	: Shri P.K. Sharma, Head P&CD, BARC
Distribution of Awards & Certificates	: Chief Guest & Guest of Honour
Concluding Remarks	: Shri Nataraju V., BARC, Co-Chairman CVSTA-2023