

Schedule of First Indian Particle Accelerator School (InPAS) on RF Linacs											
Day/time	09:00 - 10:00	10:00 -10:15	10:15 - 11:15	11.15-11.30	11:30 - 12:30	12:30 - 13:30	13:30 - 14:30	14:30 - 15:30 - 16:00 - 17:00	17:00 - 18:00	19:00-20:00 (Online/Offline)	
15-09-2025	Introduction and Overview (Dr. Rajesh Kumar)	Tea break	Basics of Beam Physics: Transverse Dynamics (Dr. Rajni Pande)	Tea break	Basics of Beam Physics: Longitudinal Dynamics : Proton Linacs (Shri. Dhruva Bhattacharjee)	Lunch Break	Basics of Beam Physics: Envelope Equations and Particle Dynamics (Dr. Vinit Kumar)	Particle Dynamics and Beam Envelope Simulations (TraceWin / Transport/Trace3D) (Dr. Rajni Pande, Dr. Shweta Roy)	Discussion (Problem solving)	Advanced Topics (beam loading, wakefields, impedances, and HOMs) (Dr. Vinit Kumar)	
16-09-2025	RF Structures for Proton Linacs (Dr. Shweta Roy)		RF Structures for Electron Linacs (Dr. Jayanta Mondal)		Ion sources (Dr. Anuraag Mishra/Shri Janvin Itteera)		Electron Guns (Shri. Pramod Radheshyam)	Electron Linac Design (Cavity and Beam Dynamics) (Dr. Jayanta Mondal/Dr. A S Dhavale)	Discussion (Problem solving)	Free Electron Lasers and Applications (Dr. K K Pant)	
17-09-2025	Space Charge Effects & Mitigation (Dr. Paritosh Sing Babu/Dr. Jose V Mathew)		Beam Diagnostics (Dr. Jose V Mathew/Dr. A S Dhavale)		Physics of Superconductivity and Cavity Design (Dr. Abhishek Rai/Dr. Uttam Bhunia)		RF Structures for Heavy Ion Linacs (Dr. Siddhartha Dechoudhary)	Proton Linac Design (Cavity & Beam Dynamics) (Dr. SVLSRao/Dr. Rajni Pande/Dr. Nitin Mehrotra)	Discussion (Problem solving)	Radioactive Ion Beams and Applications (Dr. Arup Bandyopadhyay/Dr. Vaishali Naik)	
18-09-2025	High Power RF Systems for linacs (Dr. Manjiri Pande)		High Power Transmission lines (Dr. B V Ramarao)		High Power RF Couplers (Smt. Sonal Sharma/Shri. Menten Jose)		Low Level RF Sytems (Shri Paresh Motiwala)	Visit to Accelerator facilities (LEHIPA, FOTIA)	Discussion (Problem solving)	Cryogenics for Accelerators (Dr. Anindya Chakravarti/Dr. Mukesh Goyal)	
19-09-2025	Accelerator Controls (Shri Arindam Basu/Deepak N Mathad)		Mechanical Design Aspects: NC Linacs (Shri. Piyush Jain/Shri R S Sandha)		Mechanical Design Aspects: SC Linacs (Dr. Vikas Jain)		SRF Cavity Processing (Shri S Raghavendra)	Accelerator Magnet Design (Smt. Kumud Singh/Dr. Jose V Mathew/Dr. A S Dhavale)	Discussion (Problem solving)	Industrial Applications of Electron Linacs (Shri Bakhtsingh R I)	
20-09-2025	Cavity RF Measurements (Q factor, Bead-Pull, R/Q and Identification of modes) at EBC, Kharghar				Electron Beam Centre (EBC), Kharghar Visit				Distribution of Certificates etc		