

Short course details

Tuesday, 26th November 2024

Topics	Speaker/Demonstrator	Duration	Time
Cryogenic Instrumentation (Seminar Hall, Main Building)			
Hands-on training on the cryogenic instrumentation Session-1	Dr. Joby Antony Mr. Rajesh Nirdoshi	90 min	9:30 – 11:00
Tea Break		30 min	11:00 – 11:30
Hands-on training on the cryogenic instrumentation Session-2	Dr. Joby Antony Mr. Rajesh Nirdoshi	90 min	11:30 – 13:00
Lunch Break		60 min	13:00 – 14:00
Details of the course structure <ul style="list-style-type: none"> ❖ Quick Overview of Indigenous Cryogenic Instrumentation for LINAC (Remote control units, various hardware, firmware & software) ❖ Design details of indigenous 8 channel temperature monitors. (RS232 communication -Hardware, Firmware & Software) ❖ Design details of Indigenous LHe/LN2 level meters/servers (Ethernet communication– Hardware, Firmware & Software) ❖ Design details of IUAC Control output servers (Ethernet - RS232 – Hardware, Firmware & Software) ❖ Design details of embedded servers and IoT design, ML in future Cryogenic Instrumentation Design details of LabVIEW software for interfacing/automation / data Acquisition with IUAC devices with 32-bit micro controller-based designs			
Topics	Speaker/Demonstrator	Duration	Time
Applied Superconductivity (Seminar Hall, Main Building)	Dr. Lionel Quettier GANIL, USA	75 min	14:00 – 15:15
Tea Break		30 min	15:15 – 15:45
Basics of Superconducting Cavities (Seminar Hall, Main Building)	Dr. Vinit Kumar RRCAT, Indore	60 min	15:45 – 16:30
Basics of Fabrication of the Superconducting cavities (Seminar Hall, Main Building)	Dr. Avinash Puntambekar, RRCAT, Indore	60 min	16:30 - 17:30