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SEMINARS ON TECHNOLOGICAL ADVANCES AND INNOVATION

Laboratory Fume Hoods: Safe Operating Practices, User Responsibilities & Engineering Controls



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Laboratory fume hoods are critical engineering controls designed to minimise occupational exposure to hazardous chemical vapours, fumes and gases in research environments. Their effectiveness relies on appropriate equipment selection, validated airflow performance, and adherence to established operational and safety practices. This presentation focuses on the principles of fume hood operation, correct usage by laboratory personnel, common operational errors and their potential implications for health and safety. It also addresses the role of HVAC systems in maintaining effective airflow and containment, along with essential engineering considerations for procurement, commissioning, inspection and maintenance. The objective is to strengthen user awareness, promote safe laboratory practices and foster a proactive safety culture to ensure personnel protection and reliable research operations at research laboratories.

Nov | **12** | **2026**

TIFRH Auditorium 16:00 Hrs

Tea/Coffee 15:45 Hrs