



CUCIRF External Training Schedule, 2025

Month	Training Title	Equipment	Duration	Cost (₦)	Mode	Certificate	Hands- on
April 21 – 23	Fundamentals of Gas Chromatography and Mass Spectrometry	GC-MS	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Sample Preparation Techniques for GC Analysis	GC-MS, GC-FID/ECD			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
May 19 -21	Atomic Absorption Spectroscopy: Theory and Applications	AAS	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Sample Clean-up Techniques for Trace Metal Analysis	AAS			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	UV-Vis Spectrophotometry : Analytical Methods and Calibration	UV-Vis			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
June 16 -18	Fourier Transform Infrared Spectroscopy - Attenuated Total Reflection (FTIR-ATR) for Material Characterization	FTIR-ATR	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SEM Imaging and Elemental Analysis for Material Science	SEM-EDX			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

July 21 -23	Chromatographic Method Optimization & Troubleshooting	GC-MS, GC-FID/ECD	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Equipment Maintenance and Troubleshooting for GC	GC-MS, GC-FID/ECD			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
August 18 – 20	Nuclear Magnetic Resonance Spectroscopy: Theory and Application	NMR 400 MHz	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	NMR Data Processing and Spectral Interpretation	NMR 400 MHz					
September 22 – 24	Quality Control and Method Validation in Chromatography	GC-MS, GC-FID/ECD	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Solid Phase Extraction (SPE) and Liquid-Liquid Extraction (LLE) for Organic Analysis and QuEChERS Extraction for Pesticide Residue Analysis	GC-MS, GC-FID/ECD			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Data Analysis and Method Validation in Spectroscopy	AAS, UV-Vis, FTIR,			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
October 20 -22	Laboratory Safety and Good Analytical Practices	All Equipment	3 Day	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Environmental Sample Analysis using SEM-EDX	SEM-EDX			Onsite		<input checked="" type="checkbox"/>
	Sample Preparation for SEM-EDX Analysis using Coating Machine	SEM-EDX			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
November	Inductively Coupled Plasma - Optical Emission	ICP-OES	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

17 - 19	Spectroscopy (ICP-OES): Theory and Application						
	Advanced Sample Preparation Techniques for ICP-OES (Microwave Digestion, Acid Digestion, Dry Ashing)	ICP-OES			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Troubleshooting and Preventive Maintenance of Spectroscopy Equipment	UV-Vis, FTIR-ATR, AAS, ICP-OES			Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Note:

Training fees cover tea break, lunch and training materials.

Accommodation is available at the Covenant University Guest House and Camp House upon request.

To register, kindly fill out the Google form using the link below

<https://forms.gle/NGcA16XtGhcXEm5CA>

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