



# Covenant University Central Instrumentation Research Facility (CUCIRF)



## CUCIRF External Training Schedule, 2025

Month	Training Title	Equipment	Duration	Cost (₦)	Mode	Certificate	Hands-on
<b>April 22 – 24</b>	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"/>
<b>May 19 -21</b>	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"/>
<b>June 16 -18</b>	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"/>

<b>July 21 -23</b>	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"/>
<b>August 18 – 20</b>	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					
<b>September 22 – 24</b>	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"/>	✗
<b>October 20 -22</b>	Laboratory Safety and Good Analytical Practices	All Equipment	3 Day	150,000	Onsite	<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"/>
<b>November</b>	Inductively Coupled Plasma - Optical Emission	ICP-OES	3 Days	150,000	Onsite	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<b>17 - 19</b>	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 time: 10 AM**

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>

**Contact Details**

Mr. Olatunde Ogunleye

Laboratory Manager

Mobile Phone: 08061381148

Email: [cucirflabs@covenantuniversity.edu.ng](mailto:cucirflabs@covenantuniversity.edu.ng)

Prof. Akan Williams

Director CUCIRF

Mobile Phone: 08036706086

Email: [directorcucirf@covenantuniversity.edu.ng](mailto:directorcucirf@covenantuniversity.edu.ng)

**Address**

Ground Floor, Right Wing, CUCRID Building

Covenant University, Km. 10, Idiroko Road

Canaanland, Ota, Ogun State, Nigeria

<https://cucirf.covenantuniversity.edu.ng/>