

**Two Weeks Hands-on Training Programme on Chemical Analysis of Narcotics Drugs & Psychotropic Substances (NDPS) & Precursor Chemicals at Central Revenues Control Laboratory (WCO/RCL), New Delhi, India
(11-09-2023 to 22-09-2023)**

Ist week		
Day	Time	Item
Day-1		
Monday	09.30-10.30	Inaugural Session <ul style="list-style-type: none"> • Registration • Opening Ceremony
	10.30-11.00	Photo Session / Tea
	11.00 -12.15	AcademicSegment - I Revenues Laboratories of Indian Customs Administration and their role in the control of NDPS & customs samples.
	12.15-13.30	AcademicSegment - II Indian Act controlling Narcotics & Psychotropic Substances.
	13.30-14.30	Lunch
	14.30-15.45	AcademicSegment - II Study of source & classification of NDPS Drugs.
	15.45-16.15	Tea
	16.15-17.30	AcademicSegment - III An approach, and techniques for preliminary examination of NDPS drugs
	17.30-18.00	Tour of the Laboratory (<i>site visit and shall brief on the use of state-of-the-art equipment for examination of NDPS & Customs samples</i>)
Day-2		
Tuesday	09.30-10.45	AcademicSegment-IV Chain of Custody: Procedure for Sampling, packing, forwarding and, handling of NDPS and their disposal.
	10.45-11.00	Tea
	11.00 -12.15	AcademicSegment-V NDPS & Ketamine field test kits, and their chemical reaction mechanism
	12.15-13.30	Practical Segment-I <ul style="list-style-type: none"> • Chain of Custody
	13.30-14.30	Lunch
	14.30 -15.45	PracticalSegment-II <ul style="list-style-type: none"> • Manufacture of NDPS & Ketamine field test kits
	15.45-16.15	Tea
	16-15-18.00	PracticalSegment-II Continue
Day-3		
Wednesday	09.30-10.45	AcademicSegment -VI Analysis of Opiates (morphine, codeine, thebaine, Diacetylmorphine, 6-Monoacetyl morphine) Opium (papaversominiferum) & Codeine Cough Syrup by UV-VIS, FTIR, GC, GC-MS, LC-MS, HPTLC & HPLC, and other related techniques

	10.45-11.00	Tea
	11.00-13.30	Practical Segment -III Preparation of Opium solution for HPLC analysis.
	13.30 - 14.30	Lunch
	14.30 -16.00	Practical Segment -III continue
	16.00-16.15	Tea
	16.15-18.00	Practical Segment -III Continue
Day-4	Time	Item
Thursday	09.30 -10.45	Practical Segment -IV Qualitative, Quantitative analysis of Opiates (morphine, codeine, thebaine , Diacetylmorphine, 6-Monoacetyl morphine), Opium (papaversominiferum) & Codeine Cough Syrup by various chromatograp techniques
	10.45-11.00	Tea
	11.00-13.30	Practical Segment -IV Continue...
	13.30-14.30	Lunch
	14.30-16.00	Practical Segment -IV Continue...
	16.00-16.15	Tea
	16.15-18.00	Practical Segment -IV Continue...
Day-5	Time	Item
Friday	09.30 -10.45	AcademicSegment- VII Overview of Cannabis products and methodology of their testing by using the color test, TLC, HPTLC & GC.
	10.45-11.00	Tea
	11.00-12.15	Practical Session: V Analysis of Cannabis products by using the color test, TLC, HPTLC & GC
	12.15-13.30	Practical Session: V continue
	13.30-14.30	Lunch
	14.30-16.00	Practical Session: V continue
	16.00-16.15	Tea
	16.15-18.00	Practical Session: V continue
		SATURDAY/SUNDAY
2nd week		
Day-6	Time	Item
Monday	09.30-10.30	AcademicSegment-VIII Introduction of precursors chemicals-Their Licit and Illicit uses, Identification through field test Kits
	10.30-11.00	Tea
	11.00 -12.15	AcademicSegment-IX Cooperation between drugs enforcement agencies and laboratory
	12.15-13.30	Brief of Buprenorphine products and their analysis by UV-VIS, FTIR, GC-MS, LC-MS & HPLC.
	13.30-14.30	Lunch
	14.30-15.45	Practical Session-VI Buprenorphine products and their analysis by UV-VIS, FTIR, GC-MS, LC-MS & HPLC.
	15.45-16.15	Tea
	16.15-18.00	Practical Session-VI Continue

Day-7	Time	Item
Tuesday	09.30-13.30	Educational Tour i. Forensic Institute, New Delhi
	13.30-14.30	Lunch
	14.30 -18.00	ii. National Dope Testing Laboratory, New Delhi
Day-8	Time	Item
Wednesday	09.30-10.45	AcademicSegment-X Profiling of Synthetic Drugs by using ICP-MS,NMR,LC-MS/MS, GC-MS/MS, HPTLC-MS
	10.45-11.00	Tea
	11.00 -13.30	Practical Session-VII Profiling of Synthetic Drugs by using ICP-MS, NMR, LC-MS/MS, GC-MS/MS
	13.30 - 14.30	Lunch
	14.30 - 16.00	Practical Session-VII Continue
	16.00-16.15	Tea
	16.15-18.00	Practical Session-VII Continue
Day-9	Time	Item
Thursday	09.30 -10.45	AcademicSegment-XI i. Determination of Cocaine and methaqualone by Gas Chromatography (GC & GC-MS) ii. Methodology to test Ketamine iii. Ephedrine, Pseudoephedrine & Norephedrine
	10.45-11.00	Tea
	11.00-13.30	Practical Session-VIII Determination of Cocaine and methaqualone by Gas Chromatography (GC & GC-MS)
	13.30-14.30	Lunch
	14.30-16.00	Practical Session-IX Qualitative & Quantitative analysis of Ketamine
	16.00-16.15	Tea
	16.15-18.00	Practical Session -X Qualitative analysis of Ephedrine, Pseudoephedrine & Norephedrine
Day-10	Time	Item
Friday	09.30 -10.45	AcademicSegment-XII New Psychoactive substances (NPS) and their testing methodology.
	10.45-11.00	Tea
	11.00-12.15	Practical Session -XI Testing of New Psychoactive substances (NPS).
	12.15-13.30	Practical Session-XI : Continue...
	13.30-14.30	Lunch
	14.30-16.00	Evaluation & Discussion
	16.00-16.15	Tea
	16.15-18.00	Feed Back Certificates Closing Ceremony
