

**Chemical analysis of customs samples & their HS classification at Central Revenues
Control Laboratory, (WCO-RCL), New Delhi, India
(20.01.2025 to 31.01.2025)**

1 st 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	CRCL & its laboratories and their role in HS Classification
		Module-1
	12.15-13.30	Theory Class: Testing of Test parameters of Mineral fuel oil –Ash, Inorganic Acidity, Sediment, water, Copper Corrosion, Flashpoint, Kinematic Viscosity, Aniline point, pour point, Sulphur content, GCV, distillation, aromatic content
	13.30-14.30	Lunch
	14.30-15.45	Experimental Segment Test parameters- Ash, Inorganic Acidity Sediment, water
	15.45-16.00	Tea
	16.00-18.00	Experimental Segment: Continue... Test parameters- Copper Corrosion, Flashpoint, Kinematic Viscosity,
Day-2	Time	Item
Tuesday	09.30-10.45	Experimental Segment: Aniline point, pour point
	10.45-11.00	Tea
	11.00 -13.30	Experimental Segment: Sulphur content, by ED-XRF
	13.30-14.30	Lunch
	14.30-15.45	Experimental Segment: Gross Calorific Value (GCV) by Automatic Bomb Calorimeter
	15.45-16.00	Tea
	16.00-18.00	Experimental Segment: Distillation by Automatic Distillation Unit (ADU), Aromatic content
Day-3	Time	Item
		Module-2 :
	09.30-10.45	Theory Class:

Wednesday		Analysis of Solid fuel (Coal, Coke & Petroleum Coke) Moisture, Ash Content, Volatile matter (dmmf basis), GCV (mmf basis), Sulphur content, & Nitric acid correction factor
	10.45-11.00	Tea
	11.00 -13.30	Experimental Segment: Moisture, Ash Content-by TGA
	13.30-14.30	Lunch
	14.30 -15.45	Experimental Segment: Volatile matter (dmmf basis)-by TGA
	15.45-16.00	Tea
	16.00 -18.00	Experimental Segment: GCV (mmf basis)- Automatic Bomb Calorimeter
Day-4	Time	Item
Thursday	09.30-10.45	Experimental Segment: Sulphur content by EDF-XRF
	10.45-11.00	Tea
	11.00 -12.15	Experimental Segment: Continue...
	12.15-13.30	Experimental Segment: Nitric acid correction factor
	13.30-14.30	Lunch
	14.30-15.45	Experimental Segment: Continue...
	15.45-16.00	Tea
	17.00-18.00	Calculation, interpretation, discussion and conclusion of results thereby Classification of Coal by Rank/Grade
Day-5	Time	Item
		Module-3
Friday	09.30-10.45	Theory Class An overview of Chapter 25
	10.45-11.00	Tea
	11.00 -13.30	Experimental Segment : Characterization of Nature of Calcium Carbonate (whether Natural or Synthetic) by ED-XRF, XRD and SEM-EDX
	13.30-14.30	Lunch
	14.30 -15.45	Experimental Segment: Quantification of iron content in iron ore samples by ED-XRF
	15.45-16.00	Tea
	16.00-18.00	Experimental Segment: Continue...
Saturday		Study Tour at Agra
		SUNDAY
2nd Week		

Day-6	Time	Item
		Module-4
Monday	09.30-10.45	Class Room Quantification of Gold Content, platinum and other associated impurities in Gold dore samples
	10.45-11.00	Tea
	11.00 -13.30	Experimental Segment: Determination of Gold Content by Fire Assay & Gravimetric method in Gold dore samples
	13.30-14.30	Lunch
	14.30 -15.45	Experimental Segment: Continue...
	15.45-16.00	Tea
	16.00-18.00	Experimental Segment: Continue...
Day-7	Item	Item
		Module -4 continue...
Tuesday	09.30-10.45	Experimental Segment: Determination of Platinum and other associated impurities in Gold dore samples by ICP-MS and AAS
	10.45-11.00	Tea
	11.00-13.30	Experimental Segment: Continue...
	13.30-14.30	Lunch
	14.30 -15.45	Experimental Segment: Continue...
	15.45-16.00	Tea
	16.00-18.00	Tea
Day-8	Time	Item
		Module-05
Wednesday	09.30-10.45	Class Room i. Identification of Coating in textile samples by SEM-EDX ii. Determination of 24 Banned Amines in textiles and textile products by HPLC
	10.45-11.00	Tea
	11.00 -13.30	Experimental Segment: Identification of Coating in textile samples by SEM-EDX
	13.30-14.30	Lunch
	14.30 -15.45	Experimental Segment: Determination of 24 Banned Amines in textiles and textile products by HPLC
	15.45-16.00	Tea
	16.00-18.00	Experimental Segment: Continue...
Day-9	Time	Item
		Module-6
Thursday	09.30-10.45	Class Room Qualitative and Quantitative analysis of active ingredients of pharmaceutical drugs (Ampicillin, Amoxicillin & Ciprofloxacin) by HPLC
	10.45-11.00	Tea

	11.00 -13.30	Experimental Segment: Qualitative and Quantitative analysis of active ingredients of pharmaceutical drugs (Ampicillin, Amoxicillin & Ciprofloxacin) by HPLC
	13.30-14.30	Lunch
	14.30 -15.45	Experimental Segment: Continue...
	15.45-16.00	Tea
	16.00-18.00	Experimental Segment: Continue...
Day-10	Time	Item
		Module-7
Friday	09.30 -10.45	Class Room Pyrolysis GC-MS: Principal, instrumentation and its application in the testing of plastic samples
	10.45-11.00	Tea
	11.00-13.30	Experimental Segment Identification and Characterisation of plastic samples by pyrolysis GC-MS
	13.30-14.30	Lunch
	14.30-15.45	Experimental Segment: Continue...
	15.45-16.00	Tea Break
	16.00-18.00	<ul style="list-style-type: none"> • Case studies presented on various classification issues. • Discussion of the classification issues submitted (beforehand) and presented by the participants • Evaluation and Certificates. Closing Ceremony

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