

VSM COLLEGE(A) :: RAMACHANDRAPURAM

DEPARTMENT OF CHEMISTRY

Sl. No.	Subjects	Topic	E-Resource Link
1	Inorganic, organic and Physical Chemistry	Chemistry of Coordination Compounds - Definitions of some terms involved in complex compounds	https://drive.google.com/file/d/1e2Z23azQWKm7np0u7x82ykKcFNc9dP_1/view
		Chemistry of Coordination Compounds - IUPAC Nomenclature of complex compounds	https://drive.google.com/file/d/1OXMeDZ_cHYMw3w7IF0AIBYx_MFkCAEr/view
		Chemistry of Coordination Compounds - Examples for Naming of complex compounds	https://drive.google.com/file/d/1yELOYZlvrHelha3CvrM2cB2vNC4hs3IW/view
		Chemistry of Coordination Compounds - Werner's theory of complex compounds	https://drive.google.com/file/d/1gCR71r2OYtQzuk2kuklagZSeYAP1hUMY/view
		Chemistry of Coordination Compounds - Sidgwick's electronic interpretation of complex compounds	https://drive.google.com/file/d/1p_0qDQCZ4qGxnT5zbZBB3tigs_f9oLIZ/view
		Chemistry of Coordination Compounds - Valence bond theory of complex compounds	https://drive.google.com/file/d/1TVpDf0DX2vDnZN19rPGjWdygGIZPdKGm/view
		Chemistry of Coordination Compounds - Application of VBT for complex compounds	https://drive.google.com/file/d/1MbYM6ZiD4bVfba17Q2BukeKON7pFSQx/view
		Crystal field theory of complex compounds	https://drive.google.com/file/d/177jKkZ1ITiqDrCeg-XhIsXlpAYje6qvC/view
		Crystal field splitting in Octahedral complexes	https://drive.google.com/file/d/1fAfieSz-3KV_82ad_MtlG1i5CBJcZgZn/view
		Crystal field splitting in Square planar and Tetrahedral complexes	https://drive.google.com/file/d/1Qa27xXnXaHfdfiHgW0FwXjSID8MVJ3o5/view
		Spectrochemical series and strength of ligands	https://drive.google.com/file/d/13KmeMAbjPzO082e-BlxnycfQZ4zZVK1w/view
		Structural isomerism exhibited by complex compounds	https://drive.google.com/file/d/1VCd_doukWGzRcu8Yiq-SOuIJG0A1r1dC/view
		complexes with Coordination number 4	https://drive.google.com/file/d/1QeDcaVQB0YxOclRxo6f65BcZj-o4WK-CK/view
		Geometrical isomerism exhibited by the complexes with Coordination number 6	https://drive.google.com/file/d/1ezKVFglwhouFKQRF20CmcY8sW1gwGWu0/view
		Optical isomerism exhibited by the complexes with Coordination number 4	https://drive.google.com/file/d/1J8LecPlucJUD63xx-52UsXX-2h8_CyNh/view
		Optical isomerism exhibited by the complexes with Coordination number 6	https://drive.google.com/file/d/1p_TsGbGsSheAxPr7HIqi89wzyeDU9Pce/view
		Spectral and Magnetic Properties of Metal Complexes - Colour of [Ti(H₂O)₆]³⁺	https://drive.google.com/file/d/1RHRZjDhFJ4VT3a3idCqKZEQ-OgAGUED_
Spectral and Magnetic Properties of Metal Complexes - Guoy balance Method	https://drive.google.com/file/d/1ajGJqJoUg7qNi051VfB4ILy8zHUWIXci		
Stability of Metal Complexes - Kinetic and Thermodynamic Stability	https://drive.google.com/file/d/1UdMfwxhbIKNqHshkixiPEU6T9VuJoXdE		

2	Inorganic, organic and Physical Chemistry	Stability of Metal Complexes - Factors affecting the stability of Metal complexes	https://drive.google.com/file/d/101Q-nAMhzBscY1QVExxLr1k7wHcG0puG
		Stability of Metal Complexes - Job's Method	https://drive.google.com/file/d/1WBWMMebC0Wu1ndr-Nx_gMZKJWJwa16tD3
		Nitrohydrocarbons - Introduction of Nitro alkanes	https://drive.google.com/file/d/1Db5HPfOiwND0CSstbg9V95yaMn0Izam/view?usp=sharing
		Nitrohydrocarbons - Preparation methods of Nitro	https://drive.google.com/file/d/1p5eUM68Hg_oisXWt0x3PjC5Vh7yhAKI/view?usp=sharing
		Nitrohydrocarbons - Halogenation and Reduction of Nitro alkanes	https://drive.google.com/open?id=1iz9HW-OvMF_gQVIB-15oGmm9myZy_Ozn&authuser=0
		Nitrohydrocarbons - Reaction of Nitro alkanes with Nitrous acid and Nef Reaction	https://drive.google.com/open?id=1gubC3xAPP67rcTaVaOcAKC9rVQ-YfHcl&authuser=0
		Nitrohydrocarbons - Mannich Reaction and Michael Addition of Nitro alkanes	https://drive.google.com/open?id=1-i8bNtr2X4ZjBAufCGwnLh7M5CXiHqt&authuser=0
3	(OC) RM -I & PR	INTRODUCTION TO STUDENT	https://drive.google.com/file/d/1j3_B9Rd1Izh7wmh80N_RVoCGZBnuHfR/view?usp=sharing
		Ngp part-1	https://drive.google.com/file/d/1BQwkJX_mvfuCaYL-R5xMcCU9am77bgYc/view?usp=drivesdk
		ngp part-2	https://drive.google.com/file/d/1GInzNUuWHqn0K8QAb1UeXMIQauAL9W0u/view?usp=drivesdk
		nu substitution at allyl, vinyl, and trygonal carbon	https://drive.google.com/file/d/1HZTB-FUhsWbbFJ9gEerVjzMilu9zCW/view?usp=drivesdk
		ambident nucleophiles	https://drive.google.com/file/d/1RpZPq9X1YYbSREf_4nUJ1QeVwXVdQO0s/view?usp=drivesdk
		Hydrolysis of carboxylic esters	https://drive.google.com/file/d/1UHVD-n2keTSfOoSNeLC2gWPRO8vEzcTW/view?usp=drivesdk
		hvz reaction,	https://drive.google.com/file/d/1yz5A-K7JFcWEgTFXfb3awaWVbWLNfRt3/view?usp=drivesdk
		Decarboxylation of carboxylic acid	https://drive.google.com/file/d/1-IQxrvgSoAlbmWHWSX7OYEw66BU4kJy/view?usp=drivesdk
		Esterification with dcc and mayer synthesis	https://youtu.be/XHiipq5dFEQ
		Von brawn and mitsunobu reaction	https://youtu.be/RqfWV1jZK4
		Types of electrophilic substitution mechanism	https://youtu.be/-HME-rBJfvk
		Halogenation of carbonyl compounds	https://youtu.be/xv6b5AoMncQ
		Haller bauer, dakin west reactions	https://youtu.be/fwdsN84WVtA
		4	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY-II
Pyrrole - Preparation and properties	https://drive.google.com/file/d/1U0cuBQujxg83UQKX-gHsGYTqUJtBii42/view?usp=drivesdk		
Furan - Preparation and properties	https://drive.google.com/file/d/1bdBetRr3N5QeidopqRlpEI0Vg1-7GaUU/view?usp=drivesdk		
thiophene - Preparation and properties	https://drive.google.com/file/d/1bJx8BPcEFpwA0F8IWCA7qQzfcRI15HrR/view?usp=drivesdk		
Pyridine- Preparation and properties	https://drive.google.com/file/d/1dvMcIHKLMgRr14vDj6lVeCX8VJnwsIgm/view?usp=drivesdk		

5	RM -I &PR	Asymmetric synthesis introduction	https://drive.google.com/file/d/18nW5AxiCszFXhOp_Q6SvrvekV3Biny1/view?usp=drivesdk
		Topicity	https://youtu.be/kZiE945LRac
		Enantiotopicity	https://drive.google.com/file/d/1Egw6yvVNWAGaWxtK8xnOIIaLaWyfijEs/view?usp=drivesdk
		Diastereotopicity	https://drive.google.com/file/d/1F5mhvIkxB-uRI9YQp0C3cv47-sDXylUP/view?usp=drivesdk
		Prochirality nomenclature	https://youtu.be/ftoLA9oCFVA
		Stereoselectivity	https://youtu.be/c28yIs_6oz4
		Symmetry criteria TS criteria for selectivity	https://youtu.be/1_YYbYiBc7I
		Ee and de	https://youtu.be/ux4Szu8Lmss
6	(OC) NP	Terpenoids part-1	https://drive.google.com/file/d/16H0WKtj3czJWG7N7Sd0Xa6qlud47-6jM/view?usp=drivesdk
		Terpenoids part-2	https://drive.google.com/file/d/17E4en5IWTfFrVBXz3kwglf-_fh_Z-ZQ73/view?usp=drivesdk
		Terpenoids part-3	https://drive.google.com/file/d/18N-2LXY6uQ2Cy5XKhsI0qRm6-bUc9Tnv/view?usp=drivesdk
		Farnesol	https://youtu.be/TXXcxhVliMs
		Zingiberene	https://drive.google.com/file/d/1FbT2zGs_gRjk1CbtewblZldka0iTexIX/view?usp=drivesdk
		Forskolin	https://drive.google.com/file/d/1HAQ2-UcEKn2vLSbkrWEYCx29EzRoNH7i/view?usp=drivesdk
		Taxol	https://drive.google.com/file/d/1INdxTWR2k3EdBRYfmOajIYRnnIU-Ni9a/view?usp=drivesdk
		Synthesis of taxol	https://youtu.be/UermJySoOrM
		Beta amyryn	https://drive.google.com/file/d/1P9m4xAhOuCjshdUfjEavEyyz8PNjZHo/view?usp=drivesdk
		Synthesis of beta amyryn	https://drive.google.com/file/d/1PUGaoc-a8Nr-D7CkRTVoGm9XrbgXiVnS/view?usp=drivesdk
		Biosynthesis of beta- Amyryn	https://drive.google.com/file/d/1Q52y9JQaRkuOoc5pnybGvw0FcDr-ora1S/view?usp=drivesdk
		Azadarcitin	https://drive.google.com/file/d/1QNI12W1850dy6sESU_CDZ17Avb0B1s3S/view?usp=drivesdk
Azadarcitin synthesis and Biosynthesis	https://drive.google.com/file/d/1RixFCIbIEMSu62ewKYLfmIZM3ZoeDOGX/view?usp=drivesdk		
7	(OC) RM -I &PR	Cyclo addition reactions	https://youtu.be/AiqKh8YeYFU
		Electrocyclic reactions	https://youtu.be/jVwRoKJHmRw
		Molecular symmetry part-1	https://youtu.be/P-Wsh0xRKPI
		Molecular symmetry part-2	https://youtu.be/Sj7DMPRipIU
		COD method	https://youtu.be/GdV8GB266ko
		Application of COD method part-I	https://youtu.be/idLxN8NHMdM
		FMO METHOD	https://youtu.be/S5sMw7bhxhs
		Application of FMO method	https://youtu.be/4IqKZPi7DOQ
Application of FMO method	https://youtu.be/rqhvR8aPqUU		
8	Organic Chemistry NP	Inductive effect	https://drive.google.com/file/d/18r8tASF0sX6K91jp5ghXzDjOXqKiodjr/view?usp=sharing
		Alkaloids Topic: Introduction	https://youtu.be/IHNfeS-0I9M
		(Alkaloids) Topic:Introduction	https://youtu.be/GqXRAssE_Xw
		(Alkaloids) TOPIC:Structural Elucidation of Alkaloids	https://youtu.be/crDdSU6zBIg
		(Alkaloids) TOPIC: Reserpine	https://youtu.be/z7VAREmZSTA
		(Alkaloids) TOPIC: Synthesis of Reserpine	https://youtu.be/ySenYTpAthA

9	Organic Chemistry NP	(Alkaloids) TOPIC:Structural Elucidation of Strychnine	https://youtu.be/QHO5a3n5AxM
		(Alkaloids) TOPIC: Synthesis of Strychnine	https://youtu.be/sdkRcYnDCk8
		(Alkaloids) TOPIC:Colchicine	https://youtu.be/RU0wuVevZII
		(Alkaloids) TOPIC:Structural Elucidation of Colchicine	https://youtu.be/dn1dZt0JYc4
		(Alkaloids) TOPIC: Synthesis of Colchicine	https://youtu.be/SoTj_IIOpnc
		(Alkaloids), TOPIC: Structural Elucidation of Morphine	https://youtu.be/54xuaT3C4To
		(Alkaloids) TOPIC: Synthesis of Morphine	https://youtu.be/NMymx1MHzus
		V (Flavonoids and Iso-flavonoids) TOPIC: Introduction	https://youtu.be/8vuFl0zOQJ0
		V (Flavonoids and Iso-flavonoids) TOPIC: Introduction	https://youtu.be/_3ZSa8fLpa8
		Quercetin	https://youtu.be/vK8f4sVZ-VI
		V (Flavonoids and Iso-flavonoids) TOPIC: Synthesis of Quercetin	https://youtu.be/Qsd1gw6sQu4
		Flavonoids and Iso-flavonoidS TOPIC:Cyanidin	https://youtu.be/tmfs8n8kgsU
		V(Flavonoids and Iso-flavonoids) TOPIC:Synthesis of Cyanidin	https://youtu.be/gpIdYtf1oYo
		V(Flavonoids and Iso-flavonoids) TOPI:Genestein	https://youtu.be/tJp1Yj5IvIc
		V(Flavonoids and Iso - flavonoids) TOPIC:Synthesis of Genestein	https://youtu.be/WHpujITKjWs
		V(Flavonoids and Iso-flavonoids) TOPIC:Daidzein	https://youtu.be/yMrKEW29Uac
		V(Flavonoids and Iso-flavonoids) TOPIC:Synthesis of Daidzein	https://youtu.be/_3qcPzIN_wQ
		V(Flavonoids and Iso-flavonoids) TOPIC:Kaempferol	https://youtu.be/kmyCYGI_2TI
V(Flavonoids and Iso-flavonoids) TOPIC:Synthesis of Kaempferol	https://youtu.be/zgWE3YthZ7A		
10	Inorganic and Organic Chemistry-2	d-block elements	https://drive.google.com/file/d/1h5eoe-1qS2uXrGLKEGs3eikA-pLsV3tz/view?usp=drivesdk
		d-block elements	https://drive.google.com/file/d/1hlzT1HU855J1cHmYn871vo1W91oj3yP1/view?usp=drivesdk
		d-block elements	https://drive.google.com/file/d/1hKWUnT0HnwIK0VDBT2kNY6GX4IDc3PTn/view?usp=drivesdk
		Theories of bonding in metals	https://drive.google.com/file/d/1dPxEXoQJ9wpy5n7rZH-IDM-jeXRhNwPA/view?usp=drivesdk

11	Inorganic and Organic Chemistry-6	Theories of bonding in metals	https://drive.google.com/file/d/1emgxvi_IFr5BdeE1vL_LVxi0JtVaw9HW/view?usp=drivesdk
		Theories of bonding in metals	https://drive.google.com/file/d/1mOqC4cN9yaAP8kjrUBa8Qia0RMKeBjv/view?usp=drivesdk
		Theories of bonding in metals	https://drive.google.com/file/d/1eS2F9yGG_ZZbbNXw4-xXfQwOHbLyARZ5/view?usp=drivesdk
12	General Chemistry	Periodic Table	https://drive.google.com/file/d/1ncjPezd28sQzP-KoZOIvpCmivU_wD7CC/view?usp=drivesdk
		Periodic Table	https://drive.google.com/file/d/1sOS4FkADyAvzH_9Zb36I6kTJ-gIbMHJZ/view?usp=drivesdk
		s-block elements	https://drive.google.com/file/d/1twHQ3-wugp5k4kTa0xtQWFRycTKBFNAC/view?usp=drivesdk
		s-block elements	https://drive.google.com/file/d/1ubLTe40fbymTm2XK4fCuWMLen5Xfcruh/view?usp=drivesdk
		s-block elements	https://drive.google.com/file/d/1vxy__QPv6j9U38q-q6F1RmMAdi9sXM9H/view?usp=drivesdk
		Atomic Structure-1	https://drive.google.com/file/d/1x8V0JB1qaA7q4PJJsHQJVKrEaFpBrRQL/view?usp=drivesdk
		Atomic Structure-2	https://drive.google.com/file/d/1yKsv2SFI69p81T8t2_fY9oJoL9r-D2gi/view?usp=drivesdk
		Atomic Structure-3	https://drive.google.com/file/d/1yYob7ukahVfsMtaRyYrqIpb1VW8jjum0/view?usp=drivesdk
		Atomic Structure-4	https://drive.google.com/file/d/16IPsRnuz1jRYG1zoqOjN8MnRw4Oi_KKK/view?usp=drivesdk
		P-block elements-1(1)	https://drive.google.com/file/d/1OqO2hjWob4dZFWqsr4j1yMsFkfSogMGa/view?usp=drivesdk
		p-block elements-1(2)	https://drive.google.com/file/d/1BP4rrjoz7A_QesKJmH4T8DJO-kr8AO9f/view?usp=drivesdk
		p-block elements-1(3)	https://drive.google.com/file/d/1DDwJXbe7DTy9Jun0Cq8SreTeOTES_YDE/view?usp=drivesdk
p-block elements-1(4)	https://drive.google.com/file/d/1CLmxGNVmAy1liFTGE21-wWi3q2fx_yEi/view?usp=drivesdk		
13	Inorganic and Organic Chemistry-2	Halogen Compounds-1(1)	https://drive.google.com/file/d/1RmoU7ULrjKvoog0cKwQ6vadq11I7Z8B/view?usp=drivesdk
		Halogen Compounds-1(2)	https://drive.google.com/file/d/1Shqv---ixAOvS7uMPrzoUNpvugi4huOf/view?usp=drivesdk
		Hydroxy Compounds-2(3)	https://drive.google.com/file/d/1UbSlpJPR_f8Xr0o9S2mAcZW6GekUQWla/view?usp=drivesdk
		Hydroxy Compounds-2(4)	https://drive.google.com/file/d/1VoRsK30qfMZxrHWb3XG9ftrIRv1rv3Bu/view?usp=drivesdk
		Hydroxy Compounds-2(5)	https://drive.google.com/file/d/1417h0prMew6s8LRlEmSN3dQWkSNGI08F/view?usp=drivesdk
		Hydroxy Compounds-2(6)	https://drive.google.com/file/d/137iDg83AG4xFy2m2I6fxszCzRuw8NAp/view?usp=drivesdk
		Hydroxy Compounds-2(7)	https://drive.google.com/file/d/13bDCWU4hnuCeEDTC3il_dlmAllc7p5WU/view?usp=drivesdk
		METAL CARBONYLS introduction of carbonyls & classification, EAN rule	https://drive.google.com/file/d/1Rzuh6OLa-eYm48hZZ6pcEb5VaBnpPK0t/view?usp=drivesdk
		Ni(CO) ₄ , Fe(CO) ₅	https://drive.google.com/file/d/1SH-i8qTjaweags_wzH1pjjvHi3KR-Tua_/view?usp=drivesdk

14	Inorganic and Organic Chemistry-11	Cr(CO) ₆ ,V(CO) ₆	https://drive.google.com/file/d/1SHQr1A_zLfxOWQWz1izbV3acABM-e7i/view?usp=drivesdk
		Mn ₂ (CO) ₁₀ ,Co ₂ (CO) ₈ ,Fe ₂ (CO) ₉ ,Fe ₃ (CO) ₁₂	https://drive.google.com/file/d/1SNN0ft_nk31cN3Jgizn67xWjD-R4SUtH/view?usp=drivesdk
		f BLOCK ELEMENTS f block elements introduction electronic configuration, oxidation state	https://drive.google.com/file/d/1OG8oDa3oQF17HKdh8B-Wh-YR7t3XQptN/view?usp=drivesdk
		lanthanide contraction and causes consequences	https://drive.google.com/file/d/1PXrH1_JUgZwDDm49WbC3kpo2bFXN1cVj/view?usp=drivesdk
		Magnetic properties	https://drive.google.com/file/d/1Wiw_NuAMsZR-A67fu7_0AOB6jHciDmpB/view?usp=drivesdk
		Separation of lanthanides by solvent extraction method and ion exchange method	https://drive.google.com/file/d/1cGOd2iUIRuLTvR0v3Gwglc0w4taIz3Au/view?usp=drivesdk
15	Inorganic and Organic Chemistry-2	Actinide series, oxidation states	https://drive.google.com/file/d/1eGEiNzH3YRQ_t_gJEBxsq5l4tznUx2z8/view?usp=drivesdk
		actinide contraction comparison of lanthanides and actinides	https://drive.google.com/file/d/1hfS6E72RQDjBQO19DagEt-3jGME4qYmC/view?usp=drivesdk
		unit 4 Carbonyls compounds intr	https://drive.google.com/file/d/1V5ZK4wmRCV-axXwOgpzqS2YPwbXV9_HI/view?usp=drivesdk
		structure of carbonyl group,nucle	https://drive.google.com/file/d/1eWmnqdkTwst8NbH_QcCwEwEG_5qw4ItP/view?usp=drivesdk
		nucleophilic addition reactions	https://drive.google.com/file/d/1gRMlZ38AVsUfciAZIuiMCEzcO5ebNEq/view?usp=drivesdk
		perkins, canizzaros reaction	https://drive.google.com/file/d/1hIfte4wjsztbjCExIQgFKPyiaxrA1y-H/view?usp=drivesdk
		Haloform , knovenagel reaction	https://drive.google.com/file/d/1j0yesOllXOYXpF6tZyPITEbC_9CfLVI/view?usp=drivesdk
		clemenens reduction, reduction	https://drive.google.com/file/d/1i4yevrWLPdQ9Uh21Y1VAc4GyM4xue-Zl/view?usp=drivesdk
		oxidation and separation of carb	https://drive.google.com/file/d/1kvy_cVhtXnJf-V-jjsBfM3bchsZtDDQ/view?usp=drivesdk
		oxidation and separation of carb	https://drive.google.com/file/d/1_pdpqMJnN3TRlo1i2pM-tDKMDqLSCcLZ/view?usp=drivesdk
oxidation and separation of carb	https://drive.google.com/file/d/1iFKgxq9w4A0JaNkh1hdb88rLQISNINK9/view?usp=sharing		
16	Analetical Chemistry QC& TMA-I	(Quality control in Analytical Chemistry) TOPIC: Evaluation and reliability of analytical data	https://drive.google.com/file/d/1Bt6P7ctZfyWY4emPquM-bfJNrN1A0E2W/view?usp=drivesdk
		(Quality control in Analytical Chemistry) TOPIC: Statistical analysis	https://drive.google.com/file/d/1KD4LI03O6_xxink82HjN29LW_1tVeEjy/view?usp=sharing
		(Quality control in Analytical Chemistry) TOPIC: Youden Plot & Ranking Test	https://drive.google.com/file/d/1jOLbc9mkGDDHQHo60m3zJIoYkRkceFwX/view?usp=sharing
		(Quality control in Analytical Chemistry) TOPIC: Good Laboratory Practices	https://drive.google.com/file/d/1Yg0Zmxmd0YCTc_xCI4YCYN8AUybOjzWG/view?usp=drivesdk
		(Quality control in Analytical Chemistry) TOPIC: ICH Guidelines	https://drive.google.com/file/d/1YotkGq1e88D2Ym6flujRWIHCrgsYjEm/view?usp=drivesdk
		(Quality control in Analytical Chemistry) TOPIC: ISO - 9000 and ISO - 14000 Series	https://drive.google.com/file/d/1_0XhN_9Tnnu61-SGcS3uey0VBcFzNVDp/view?usp=drivesdk
	INTRODUCTION TO APPLIED ANALYSIS (PAPER-III)	https://drive.google.com/file/d/1m_CJDPwdiolAR8Dfhv0eR_lSaFXXzISI/view?usp=sharing	

17	Analytical Chemistry AA-I	(ANALYSIS OF ORES) TOPIC: General techniques of analysis applied to complex materials	https://drive.google.com/file/d/1o8IdWikJvmgUQ3vecdzfNoDOjleQaXj6/view?usp=sharing
		(ANALYSIS OF ORES) TOPIC: Analysis of Iron Ore (Part-A)	https://drive.google.com/file/d/1s9HagCAhzYgE27VAhqx1TumJt5CKBMe/view?usp=sharing
		(ANALYSIS OF ORES) TOPIC: Analysis of Iron Ore (Part-B)	https://youtu.be/_lKvgjMxXjA
		(ANALYSIS OF ORES) TOPIC: Analysis of Iron Ore (Part-C)	https://youtu.be/tdtAlcHf984
		(ANALYSIS OF ORES) TOPIC: Analysis of Iron Ore (Part-D) & Analysis of Manganese Ore	https://youtu.be/hPuz6fjpkHc

