



Maratha Vidya Prasarak Samaj's

KRT Arts, BH Commerce and AM Science (K.T.H.M.) College, Nashik 422002

Office: 0253-2571376 Email: iqac@kthmcollege.ac.in

College with Potential for Excellence (CPE) status by UGC, Best College Awarded by SPPU in 2004 & 2017, Reaccredited by NAAC with "A++" Grade (CGPA- 3.79), Recipient of UGC STRIDE Scheme and UGC-PARAMARSH Scheme, DST-FIST Sponsored, DBT STAR College Status



Department of Chemistry **A Report of e-Resources available in the Department**

No. of Video Lectures (Attach the List Separately)	593
No. of PPT's Available (Attach the List Separately)	209
No. of Online Lectures(Zoom, Google Meet) (Attach the List Separately)	58
No. of Software available (Attach the List Separately)	11
No. of Modules available (Attach the List Separately)	Nil
No. of LCD Projector, Laptop with Internet Connection available	LCD – 2 Laptop – No Internet Connection – 12 Port
No. of e-Books, e-journals available (Attach the List Separately)	E-Book =33+3708 E-Journal = 67



Prof. (Dr.) S. R. Labhade

Head, Department of Chemistry

Head
Dept. of Chemistry
K. T. h. M. College, Nashik - 2.

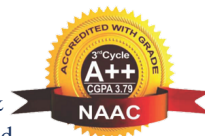


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List of Video Lectures

Name of the Faculty	Topic	Link of the Video Lectures
A.C.Gurule	Unimolecular reaction	https://youtu.be/S8jLDCB_lgE?si=fxXAXkQ0A6adRtc
	Basics of chemical Kinetics	https://youtu.be/5pJ3RTGaew8?si=EGMBk89nByPeMXkV
	Chemical Bonding	https://youtu.be/P8nGlbW84wU?si=yF4I68kY6tPuOSAA
	Review of thermodynamics	https://youtu.be/P8nGlbW84wU?si=yF4I68kY6tPuOSAA
	Basic concept of thermodynamics	https://youtu.be/56ESxV_EEMw
	Enthalpy of various chemical reaction	https://youtu.be/i1_9xTnMKIk
	Numerical based on enthalpy	https://youtu.be/57e2d6zZiHA
	Numerical of enthalpy of neutralization	https://youtu.be/LDpI1uBmUDA
	Numerical on bond enthalpy	https://youtu.be/eq7lSkNooPA
	Resonance stabilization energy	https://youtu.be/JLBnG-_bUJk
	Kirchoff's equation	https://youtu.be/xIjzLOvCMew
	Third law of thermodynamics	https://youtu.be/sU6jV1MxZic
	Introduction of degree of dissociation	https://youtu.be/UrT-qAiQEE4
	Ionization constant	https://youtu.be/sfXaOxYVD_E
	pH scale	https://youtu.be/pS83E4xwq0I
	Numericals on pH	https://youtu.be/U274sIJnoNY
	Acidic buffer solution	https://youtu.be/2U31TZqJTrA
	Basic buffer	https://youtu.be/_M7x5dWFtQ
	Henderson hasselbaulch equation	https://youtu.be/frlyijsclzA
	Numerical on H-H equation	https://youtu.be/9u-AVVC_5cU
	Introduction to quantum	https://youtu.be/vKtJVVjYVM4
	Photoelectric effect	https://youtu.be/-C1Lsy60tJE
	Diffraction	https://youtu.be/NS8xYkSbG2Y
	Bohrs theory	https://youtu.be/JiTl4CJ_85s
	Heisenbergs Uncertainty	https://youtu.be/Ri4UVokGBJc
	Significance of wave function	https://youtu.be/rKE81OJh47E
Radial and angular nodes	https://youtu.be/tOiKZtwcHU4	
Significance of quantum no.	https://youtu.be/rG87I3RCUdY	

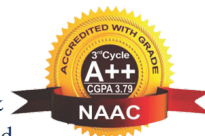


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	Shapes of atomic orbital	https://youtu.be/oIA4kZEpk9s
	Rate law	https://youtu.be/I6-CeCeMWvQ
	Basics of chemical kinetics	https://youtu.be/mZCcESvxNzk
	First order reaction	https://youtu.be/2kgXFO9Kdjk
	Third law	https://youtu.be/YLK00p0Bj0I
	Branched chain reaction	https://youtu.be/vIzC92vrrBc
	Michaelis-Menten equation	https://youtu.be/fuxMZcy7pGw
	Lineweaver-Burk plot method	https://youtu.be/147j50cjA6c
	Introduction to spectroscopy	https://youtu.be/kVfbIERhD4I
	Classification of molecule	https://youtu.be/U2o8XuPRE6o
	Rotational spectra of diatomic molecule	https://youtu.be/3NwXl_nFzFk
	Intensity of spectral line	https://youtu.be/1xM_NjDoZno
	Spectrum of non rigid rotator	https://youtu.be/P0O-Bp0Wl8Q
	Rotational spectra of polyatomic molecule	https://youtu.be/OHD3XRmb3HU
	Vibrating diatomic molecule	https://youtu.be/VYpdBTcd0Jo
	Anharmonic oscillator	https://youtu.be/uhOOMOmgHTg
	Complex reaction	https://youtu.be/7aIHiMCfaLM
	Second order reaction	https://youtu.be/2kgXFO9Kdjk
	Zero order reaction	https://youtu.be/mZCcESvxNzk
	Introduction to degree of dissociation	https://youtu.be/P0HBIBd45m0
Ghotekar B.K.	Homotopic, enantiotopic, diastereotopic proton, chemical equivalence	https://youtu.be/Gg3X6yz1bDg ,
	Magnetic equivalence	https://youtu.be/wvtpmgIjnuU ,
	First order spectra, Second order spectra	https://youtu.be/OGC8Lfk-2LA ,
	Different Spin Patterns in NMR	https://youtu.be/-Igf7fHQuwso ,
	Complex multiplicity patterns in benzene molecules	https://youtu.be/m69cMM7yUu0
	Simplification of complex spectra	https://youtu.be/dXvU4_FcT5U ,
	Simplification of complex spectra	https://youtu.be/BdVtH2u5-vk ,
	Simplification of complex spectra by NOE Method	https://youtu.be/Ea0hoGrEsFY ,
	Problem based on NOE Method	https://youtu.be/xW8DR4ZXUpw

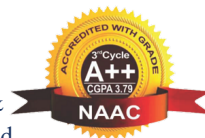


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Problem based on NOE Method	https://youtu.be/fk_7WBHDVNQ ,
Problem based on NOE Method	https://youtu.be/gDeuqMSCNmI ,
Problem based on NOE Method	https://youtu.be/yPKrFoVgjtK ,
Problem based on NOE Method	https://youtu.be/OtFo483-SKM ,
Problem Based on Structure Determination from Given NMR Data	https://youtu.be/UQayi_obSFg ,
Introduction, Correlation Chart of Chemical Shift Value	https://youtu.be/Rx2sZn3Ltt0 ,
Proton Coupled 13 Carbon NMR Spectra	https://youtu.be/6OATGvPPY3A
Proton Decoupled 13 C NMR Spectra	https://youtu.be/vJVCNIOgDgA
Off Resonance Decoupling & DEPT Technique in 13 C NMR Spectroscopy	https://youtu.be/JJIAXkMvv4 ,
Problems Based on 13 C NMR Spectroscopy	https://youtu.be/RLIkK6B8PF8
Problem Based on 13 C NMR Spectroscopy	https://youtu.be/SpXGv84luAY ,
Problem Based on 13 C NMR Spectroscopy	https://youtu.be/k8PpKF9ZXkI ,
Problem Based on 13 C NMR Spectroscopy.	https://youtu.be/T00nQ4t9O5E ,
Problem Based on 13 C NMR Spectroscopy.	https://youtu.be/qcb6bl4YmM4 ,
Problem Based on 13 C NMR Spectroscopy.	https://youtu.be/pZ449xE8bs8 ,
Topic 2D NMR	https://youtu.be/XoQ27uQDGpA ,
How To Interpret COSY Spectra.	https://youtu.be/4YHMSP_0y6E
How To Interpret COSY Spectra.	https://youtu.be/HGRYlrPdMp0 ,
Mass Fragmentation -General View.	https://youtu.be/EVzoCJXgNfA
Mass - Fregmentation Of Alkane Cycloalkane, Alkene	https://youtu.be/2GLEKQEI06M
Mass Fragmentation Of Alkenes, Cycloalkenes.	https://youtu.be/Vh5w89mnClQ
Mass Fragmentation Of Alkynes & Aromatic Hydrocarbons	https://youtu.be/EIPEmEBwuyY
Mass Fragmentation Of Alcohols .	https://youtu.be/fzbYEMrP7sA
Introduction - Types of Isomers	https://youtu.be/p5VzekZRbmo
Structural Isomerism	https://youtu.be/v_O9MCvaoaA ,

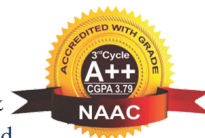


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	Projection Formulae	https://youtu.be/3wFucJ76vT4 ,
	Interconversion of Projection Formulae	https://youtu.be/FvcbYbbnht4 ,
	Interconversion of Projection Formulae-Fischer to Saw horse Formula & Saw horse to Newman Formula	https://youtu.be/oNPVYIZUVZ8
	Conformational isomerism in Ethane	https://youtu.be/QU2wTW5vD3U
	Conformational Isomerism In n-butane	https://youtu.be/yXb1IEMAfMs
	Conformational Isomerism In Cyclohexane	https://youtu.be/OclzT_RCIHQ ,
	Conformational Isomerism In Cyclohexane	https://youtu.be/c12cvKEjxhA
	Conformation Of Cyclohexane - Why Baeyer Strain Theory Failed ?	https://youtu.be/Ms7NL6xpPYs ,
	Factors Affecting the stability of Conformation	https://youtu.be/YBMdwCbN3H4 ,
	Conformational Isomerism In Cyclohexane	https://youtu.be/5KkHT4RDd
	Conformational Isomerism In Cyclohexane	https://youtu.be/vkJJeudOY6-c .
	Optical Isomerism ,	https://youtu.be/QYKjHf1yl7U
	Assignment of R,S Configuration	https://youtu.be/mIU_aairLEk
	Assignment of R,S Configuration	https://youtu.be/fyc5_aODwhE
	Compounds containg 2 Chiral centre	https://youtu.be/13ppDSG-CEo
	absolute configuration for compounds containing 2 chiral centre	https://youtu.be/s37zj-q7QvE
	Introduction, Isomerism ,Geometrical Isomerism	https://youtu.be/Krf1U6mIMbU
	alkene	https://youtu.be/_kAyjJprPR8
	Physical & Chemical Properties Of Geometrical Isomers	https://youtu.be/Aul3HejRW4U
	-Laboratory Preparation of Alkenes-Dehydrohalogenation Of Alkyl halides	https://youtu.be/Ez5FPvxDYWQ
	-Laboratory Preparation of Alkenes-By Elimination Reaction Dehydrogenation Of R-OH &Dehalogenation Of Vicinal Halides By Addition Reaction	https://youtu.be/ipXRRf9Hr98
	Reaction Of Alkenes- Addition Reactions Hydrogenation Of	https://youtu.be/ws-mMNNPGaY

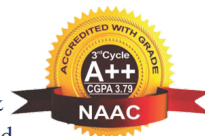


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	Alkenes, Halogenation Of Alkenes, Hydrohalogenation Of Alkenes, Peroxide effect, Hydration Of Alkenes, Addition of Sulphuric acid Of Alkenes, etc.	
	Reaction Of Alkenes- Addition Reactions- Oxymercuration- Demercuration, Hydroboration- Oxidation	https://youtu.be/5j48M1DP2qY
	Addition Reactions- Hydroxylation Of Alkenes, Cis Hydroxylation ,Trans Hydroxylation , Cleavage Reactions Of Alkenes, Ozonolysis , Reaction with Potassium Permanganate /Sodium Per Iodate	https://youtu.be/C7bVePIOR-E
Dr. K.R.Labhade	Strength Of Organic Acids & Bases	https://youtu.be/J8O4G2sqP9o
	Strength Of Organic Acids & Bases	https://youtu.be/VXjG3nOdSyw
	Aromatic Hydrocarbon	https://youtu.be/ltYMyYpfFfU
	Aromatic Hydrocarbon	https://youtu.be/Xb_qaVI7JR4
	Elimination Reactions	https://youtu.be/eKHLv7gfpeM
	Elimination Reactions	https://youtu.be/SkXGPTAdCLY
	Rearrangement Reactions	https://youtu.be/3BYwgsW0RMM
	Rearrangement Reactions	https://youtu.be/n08O_o18fx4
	Rearrangement Reactions	https://youtu.be/M9XFRTKqqTs
	Rearrangement Reactions	https://youtu.be/zMKAh9ASGgl
	Rearrangement Reactions	https://youtu.be/tsR3aQ7hGc4
	Gravimetry	https://youtu.be/tsR3aQ7hGc4
	Gravimetry	https://youtu.be/G92iU_slmTY
	Gravimetry	https://youtu.be/Mld6YZqoEeM
Stereochemistry of disubstituted cyclohexane	https://youtu.be/kwlBydvf4SU	
Dr. Shivaji R. Labhade	Introduction to Analytical Technique	https://youtu.be/TT9V2NYZVS0
	Introduction to Analytical Technique	https://youtu.be/TT9V2NYZVS0
	Introduction to Gravimetric Analysis	https://youtu.be/SdsjFtpDcso
	Introduction to Gravimetric Analysis	https://youtu.be/csLWvv3-AE8
	Process of Gravimetric Analysis	https://youtu.be/z5mJKlg-lz4
	Applications of common ion effect	https://youtu.be/fX8_AzAfFWI



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Factors affecting the solubility of the precipitate	https://youtu.be/e2ABvxAdOjo
Super saturation, and Co-precipitation	https://youtu.be/bnxMJuovpI4
Post-precipitation and Homogenous Precipitation	https://youtu.be/5W0JfEsNiF4
Filtration and Washing of Precipitate	https://youtu.be/vwZjDfxk40I
Drying and Ignition of Precipitate	https://youtu.be/PmaRBVx7yBs
Drying and Ignition of Precipitate	https://youtu.be/dM3fOJiDSXo
Electro-gravimetry and Faraday's law	https://youtu.be/HtIrrzROUkT4
Numerical on Electrogravimetry	https://youtu.be/mPWXHdQH3w0
Working of Galvanic and electrolysis cell	https://youtu.be/JJ15ggbK_UI
Terminology in Electrogravimetry	https://youtu.be/IIroPcco7o
Electrogravimetry-Electrolysis cell	https://youtu.be/3RLRpSZAd4Q
Applications of Electrogravimetry	https://youtu.be/b7FJ3tg3nY0
Introduction to Voltammetry	https://youtu.be/5WevqiWpQXY
Introduction to Polarography	https://youtu.be/qc5Euy4Q7Fs
Working Electrode in Polarography	https://youtu.be/3di3ZCx-zMg
Instrumentation of Polarography	https://youtu.be/bLWDHXmutrc
Working of Polarography	https://youtu.be/8sGcOOTeD7w
Polarogram and Chemical Analysis	https://youtu.be/v-fueO7eEhs
Factors Affecting the Polarographic Wave	https://youtu.be/SdIsh9bijzY
Polarography-Numerical Problems	https://youtu.be/0BC09v8p9aM
Applications of Polarography	https://youtu.be/v8RetW889dY
Polarography-Numerical Problems	https://youtu.be/bUL5rKla_bA
Polarography: Questions and Answers	https://youtu.be/A9JdR_8uDII
Polarography: Questions and Answers	https://youtu.be/yk0q_SFqs-E
Polarography: Polarographic Titrations	https://youtu.be/8xia35SIazI
Classification of thermal methods of analysis	https://youtu.be/sXpNodADL6U
Instrumentation of thermo-balance	https://youtu.be/qmFm5unjUZ4
Thermogravimetric curve and its applications	https://youtu.be/dXmB0Im5400

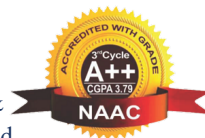


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Thermogravimetric curve, its applications	https://youtu.be/q_ILterxonI
Differential Thermal Analysis	https://youtu.be/vf3DrNa2e3Y
Terminology in EMR	https://youtu.be/iQKGadNRQbk
Terminology in absorption spectroscopy	https://youtu.be/dbOroz9nlh8
Photometric Law Lambert's Law	https://youtu.be/_15TVrMkwNY
Photometric Law Beer's Law	https://youtu.be/3VwD9L--noE
Laws of Photometric Analysis: Numerical	https://youtu.be/I4L-8oWup8w
Laws of Photometric Analysis: Numerical	https://youtu.be/IXbl_YXU3YE
Instrumentation of Spectrophotometry	https://youtu.be/XW3l2nkPYD4
Instrumentation of Spectrophotometry	https://youtu.be/-cdQih1brWo
Instrumentation of Spectrophotometry	https://youtu.be/V6wIpUOBYs4
Instrumentation of Spectrophotometry	https://youtu.be/b09LhKvILKo
Simultaneous Determination	https://youtu.be/uXjAnCVDkFU
Photometric Titrations and examples	https://youtu.be/z_-mjQRquu0
Applications of Spectrophotometry	https://youtu.be/Vj3u5uoJpJg
Applications of Spectrophotometry	https://youtu.be/Dyn2BVvwgJQ
Principle Flame Atomic Emission Spectroscopy	https://youtu.be/37wQ3F3nAWM
Resonance line Spectroscopy	https://youtu.be/nGTKNxg7rKY
Factors intensity of Resonance line	https://youtu.be/CHIQ5xVOF-I
Instrumentation: Atomizer in AES	https://youtu.be/VGJ44u2cIqI
Instrumentation: Spectrophotometric Sy.	https://youtu.be/2fi3HfNkDjY
Interferences in Atomic Emission Spectroscopy	https://youtu.be/t_Chs_Gt6zk
Quantitative evaluation Methods, applications	https://youtu.be/7nM4ESormUo
Principle of Flame AAS	https://youtu.be/54pvXMEXAE0
Instrumentation of Flame AAS	https://youtu.be/NMriqbgdmqQ
Working of Flame AAS	https://youtu.be/H6_elPYeLac
Interferences in Flame AAS	https://youtu.be/0jDuoOV_RD4
Instrumentation and working AAS	https://youtu.be/UWQC9B37gio

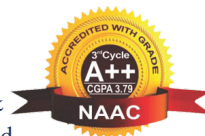


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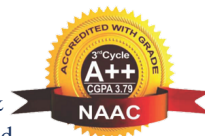
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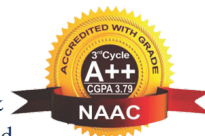
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	Introduction to Chromatography	https://youtu.be/34oFsL_eSYI
	Classification of Chromatography	https://youtu.be/GP2kIL1PSS8
	Principle of Chromatography- Match Box Model	https://youtu.be/kxQaJgOLmjk
	Thin Layer Chromatography & applications	https://youtu.be/sH08IKFvkVU
	Applications of Thin Layer Chromatography	https://youtu.be/nTsbXwlh7MY
	Column Chromatography and Applications	https://youtu.be/DeeYepbS4LE
	Theory of Paper Chromatography	https://youtu.be/c0aMTcTEevw
	Applications of Paper Chromatography	https://youtu.be/degxFvuAys4
	Theory of Ion Exchange Chromatography	https://youtu.be/k9TDEv3jHuQ
	Applications of Ion Exchange Chromatography	https://youtu.be/6yaL092xG9I
Khalkar A.D.	UV Spectroscopy, UV spectroscopy Components (detector, amplifier, Read out device) Application	https://www.youtube.com/watch?v=1QUw1omCVGs
	Scanning Tunnelling electron microscopy(STEM)	https://www.youtube.com/watch?v=E_3hlx-lpqw
	Homogeneous catalysis.	https://www.youtube.com/watch?v=8FjfnHYSLgw
	Fluorescence and phosphorescence	https://drive.google.com/file/d/1YmdLA2C4H8n8IUTBPSb0vBZkhAJcVsvH/view
	Excited state producing fluorescence and phosphorescence, energy level diagram, rate of absorption and emission, deactivation process	https://drive.google.com/file/d/1Un3QVHHo-dqRd9WvAo3qUGnpUGM8wNMe/view
	Variable affecting fluorescence and phosphorescence, Emission and Excitation spectra	https://drive.google.com/file/d/1r-sPBnbe1brrxM857czn6ckrHnIAeL_O/view
	Instrument for measuring Fluorescence (Fluorometer, Spectro fluorometer)	https://drive.google.com/file/d/1IKEg46EFizzN1osnEZTF0AYpKlijohTw/view
	Instrument for measuring Phosphorescence	https://drive.google.com/file/d/1Box6G5Anqmjz4d40YWJEBzTetdTKQmk5/view
	Chemiluminescence, Types of chemiluminescence, luminator, application	https://drive.google.com/file/d/161-NrlMbmXPoAsem7k7l8w06UtnNDOP/view
XPS	https://drive.google.com/file/d/1QeVok6RNUr2SGnDdn-dEvCTTC7yiszy-/view	



AES	https://drive.google.com/file/d/1_tqsDJxjIPfzeO2IFINdHhdR0aOVLA73/view
Introduction of EPR	https://drive.google.com/file/d/1HUamjva26s8Ifiy1A6-DL2FCXyGrAfik/view?usp=sharing
Spectroscopy ,Magnetic	
property ,Electron spin quantum number ,Working	
of EPR spectroscopy .	
ESR	https://www.youtube.com/watch?v=L1pWWvWfVSA
Electron Spectra (PE Spectra and AE Spectra)	https://drive.google.com/file/d/15tx4gXZmPoEAq3hAJUB-YCMRLocB5cVw/view?usp=sharing
qualitative analysis, peak identification,	https://drive.google.com/file/d/10eO1auk0I1ibRtwSwqEQzYI37TUuloN/view?usp=sharing
chemical shift, problems with insulating materials,	
Quantitative analysis: peak and	https://drive.google.com/file/d/1C_v1NWUhiJoimwdvbR2AU8s0tsMOtB2H/view?usp=sharing
sensitivity factor, composition depth profiling	
Depth profile	org/lecture/methods-surface-analysis/xps-quantitative-analysis-depth-profiling-Kk6d
EPR transition and selection rule	https://drive.google.com/file/d/1O4E-4xG2YYqMDEcG_Sdwc_1HHZx_8fES/view?usp=sharing
Presentation of spectra and g factor	https://drive.google.com/file/d/1O4E-4xG2YYqMDEcG_Sdwc_1HHZx21_8fES/view?usp=sharing
Nuclear hyperfine splitting, radical	https://drive.google.com/file/d/17AY75uh_Jcav58Zci9u1121jwKrOcJNQ/view?usp=sharing
containing one proton, selection rules, radical containing a set of	
equivalent protons, radical containing a set of multiple protons, radical containing	
multiple sets of protons ($I = \frac{1}{2}$), radical containing multiple sets of proton ($I > \frac{1}{2}$)	
Introduction to Aldehyde and Ketone	https://drive.google.com/file/d/1zp5JN6_8qmMmxa0xoXjH3EFnQu3GpuOB/view?usp=sharing
Preparation of aldehyde	https://drive.google.com/file/d/17ovc9V71m3MpJ8LEH6qqHTus6Fx9DUhz/view?usp=sharing
Preparation of ketone	https://drive.google.com/file/d/12wcOa8v4X2oKy8vXUyK_GthHlv69BFKMS/view?usp=sharing
To study the variation of mutual solubility temperature with concentration for the phenol - water system	https://drive.google.com/file/d/1I2mI76bH0NLNyZ1MmnJrEKObXwkBRJ0c/view?usp=sharing



study the effect of added electrolyte on the critical solution temperature of phenol-water system and to determine the concentration of the given solution of electrolyte.	https://drive.google.com/file/d/1GoPs3ADuOh3BWO41HyX1DwuFpaCPtSIM/view
Nucleophilic addition to carbonyl group , Condensation reaction with ammonium derivatives , Iodoform test	https://drive.google.com/file/d/1rcBWYnLpJq51EMhEpRD9TfioAJGg5dyo/view?usp=sharing
Aldol condensation ,Cross aldol condensation , Cannizzaro reaction , Cross Cannizzaro reaction	https://drive.google.com/file/d/1Cz1FtP09BxWyR9epCE1mGjmrHJiEpkj/view?usp=sharing
Wittig reaction ,Benzoin condensation	https://drive.google.com/file/d/17Nd7QHqBhL2GEwM5yHzfw9u7tQ07iccl/view?usp=sharing
Introduction ,Structure , classification ,nomenclature , Preparation of carboxylic acid by acidic and alkaline hydrolysis of esterLink	https://drive.google.com/file/d/1tAIIVJ2tvga03UYDsfiwuEXnj_WX0j7Z/view?usp=sharing
Reaction of Carboxylic acid (Substitution in alkyl group)	https://drive.google.com/file/d/1ciZfj75-1bSSmHrztuYKrvOBaSCdOmI4/view?usp=sharing https://drive.google.com/file/d/1ciZfj75-1bSSmHrztuYKrvOBaSCdOmI4/view?usp=sharing
Functional derivatives of carboxylic acid	https://drive.google.com/file/d/1WhV44Yu4VKOfzW95656u6Omz4MajfQL_/view?usp=sharing
Preparation of functional derivatives of carboxylic acid	https://drive.google.com/file/d/1tEFAaedZdxV27XD4IwskvnjWWF81mWWX/view?usp=sharing
Preparation of Acid derivatives (Comparative study of Nucleophilic substitution reaction of acyl derivative ,Reformatsky reaction , perkins reaction)	https://drive.google.com/file/d/15BW6HokBn-H4weHvZA7lvhaWZGFsScBn/view?usp=sharing
Introduction and IUPAC Nomenclature ,Gabriel's Pthalimide Synthesis	https://drive.google.com/file/d/1e2mWK6o6OxCltrZobx_01iUM2Ou4TLHr/view?usp=sharing
Introduction and IUPAC Nomenclature ,Gabriel's Pthalimide Synthesis	https://drive.google.com/file/d/1e2mWK6o6OxCltrZobx_01iUM2Ou4TLHr/view?usp=sharing
Introduction and IUPAC Nomenclature ,Gabriel's Pthalimide Synthesis ,	https://drive.google.com/file/d/1e2mWK6o6OxCltrZobx_01iUM2Ou4TLHr/view?usp=sharing
Introduction and IUPAC Nomenclature ,	https://drive.google.com/file/d/1e2mWK6o6OxCltrZobx_01iUM2Ou4TLHr/view?usp=sharing
Preparation from Alkyl halides	https://drive.google.com/file/d/1RluMkUZAnmaLBsVMMod



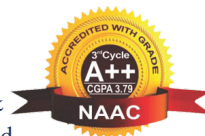
Gabriel's Pthalimide Synthesis ,	h0ZA6YKQYRudBD/view?usp=sharing
Hoffmann Bromamide Reaction,	https://drive.google.com/file/d/1iKzPt9RhRlMHZJ3m15r0QA6Ut2s9_tTl/view?usp=sharing
Hofmann versus Saytzeff Elimination	
Electrophilic	https://drive.google.com/file/d/1ASMuGp8HfzQJX1UknqKX5JFIWgW3occO/view?usp=sharing
Substitution (Case Aniline)	
Nitration, Bromination and Sulphonation	
Diazonium	https://drive.google.com/file/d/13Nam6o9_k6QtFs8EW1loZmexj0bIVbhZ/view?usp=sharing
Salts, Introduction,preparationofAromatic Amines	
Baeyer's Strain	https://drive.google.com/file/d/1SRW31-bh8Td8hvj7v-xZattotHosXEWw/view?usp=sharing
Theory ,Heat of Combustion of Cycloalkane	
Structure of Cyclohexane ,Axial and Equatorial Hydrogen Atoms , Conformations of Cycloalkane	https://drive.google.com/file/d/1WEwTgVLcCTE55o5HtLO2dKfDrDmOfbIQ/view?usp=sharing
Stability of conformations of cyclohexane.	https://drive.google.com/file/d/1smLbtCiTIqOvxuIc44WQwfE6u_mGAI/view?usp=sharing
Methyl and Tert-Butyl Monosubstituted cyclohexane , 1,1 and 1,2-Dimethyl Cyclohexane's and their Stability	https://drive.google.com/file/d/1f_uQZVtmYGVkG19y2PewFqE6eIDYZ5FB/view?usp=sharing
Oxidative addition	https://drive.google.com/file/d/1L2vYfJtJaWAmGpFD-MiN3rKdOJy_VTyb/view?usp=drivesdk
Oxidative addition mechanism	https://drive.google.com/file/d/1PL_meeD_OT2BfAOkdXh9CDaV8hJsNiBu/view?usp=drivesdk
Reductive elimination	https://drive.google.com/file/d/1fKp0GYJU82tWsdMrKTVBMhqoxXX_LVCq/view?usp=drivesdk
Reductive Elimination reaction	https://drive.google.com/file/d/19DcToT8V9kkeXwT627tB1oEHp5NCDYVa/view?usp=drivesdk
Migratory insertion	https://drive.google.com/file/d/195B2h4IUKvhkF6ZyEAPs1EGi1yvfDMB/view?usp=sharing
Reductive elimination reaction mechanism	https://drive.google.com/file/d/19DcToT8V9kkeXwT627tB1oEHp5NCDYVa/view?usp=sharing



Beta hydride elimination reaction	https://drive.google.com/file/d/1k0nJdgepbddULh5UJ2qZE_HfbBduP0DhX/view?usp=sharing
Link	
Organometallic reaction	https://drive.google.com/file/d/1SJ2gkb18m56RRSEIEblrBYobiZwA6iBh/view?usp=sharing
C-C Coupling reaction (Heck Reaction)	https://drive.google.com/file/d/1EqZ1F0b0NeZAzxF_E2ML8jTAiDibm0J/view?usp=sharing
Suzuki Coupling	https://drive.google.com/file/d/1LyC-xAQV_tb9nBtKzJgXanq7himiyfjd/view?usp=sharing
Cativa process	https://drive.google.com/file/d/11UmJQO4Vo7NWrx_hsRWiYAGnxcccM0_L/view?usp=sharing
Aromatic Hydrocarbon	https://drive.google.com/file/d/13j50TlxluDVA_2D6IY8TmJfEls8fOWS/view?usp=sharing
Topic :Classification of Homocyclic Compound	
Topic : Aromatic Character and Huckel Rule	https://drive.google.com/file/d/1Rp6IkQXo7XXvjoJyEtBtR_xylh2DWr2Vc/view?usp=drivesdk
Reaction of Benzene	https://drive.google.com/file/d/1QapuqZRh8Kvko2_ONFLAAfU9_mTBAmY/view?usp=drivesdk
R62reaction of Benzene	https://drive.google.com/file/d/1VSPxW1r-wrBcd8xiOD5mgxN6w_1g8vx/view?usp=sharing
Classification of alkyl halide	https://drive.google.com/file/d/1UGkg3AOpB5EQNkESLaDbwfDIVZdCX07P/view?usp=sharing
General methods of preparation of alkyl halideLink	https://drive.google.com/file/d/1-NSJRemmXD8xx_sIxSaJhBnYJNaY8cw7/view?usp=sharing
reaction of alkyl halide	https://drive.google.com/file/d/1fMrLFcUKFPz7t-A0th2MjXLM8BA_gIpL/view?usp=drivesdk
Phenol	https://drive.google.com/file/d/1mvxAIiojj0zw71qFF-Nxmgylm3vB2YQz/view?usp=drivesdk
Reaction of aryl halides	https://drive.google.com/file/d/1HSTeLU1uMlbAxFeL4AA_xcyCDkLkdcoe/view?usp=drivesdk
Reactivity and relative strength of carbon -halogen bond in alkyl, allyl benzene ,vinyl, and aryl halides (Effect of nitro substituent is high at Ortho and Para position)	https://drive.google.com/file/d/1ze70Im7wjP92SV4hvR-kH-yM3v_6z1s_/view?usp=sharing
Alkyl halide : Introduction , Classification , Structure , Classification ,and Nomenclature	https://drive.google.com/file/d/1UGkg3AOpB5EQNkESLaDbwfDIVZdCX07P/view?usp=sharing
Alkyl halides :General methods of preparation of alkyl halides	https://drive.google.com/file/d/1-NSJRemmXD8xx_sIxSaJhBnYJNaY8cw7/view?usp=sharing
lkyal halides : Reaction of Alkyl halide	https://drive.google.com/file/d/1na9kq4vDM7ciQEtuA_5jOxth376iVK20/view?usp=sharing
Substitute reaction (SN2):	https://drive.google.com/file/d/1OUs0702Wh058vDe_Q5YAGo402Be4fJFY/view?usp=drivesdk
Mechanism of substitute reaction(SN2) :	https://drive.google.com/file/d/1Ceh1YuB5V98v0Od_JOT2OyjyGveBwpF7/view?usp=drivesdk



	SNi Reaction	: https://drive.google.com/file/d/1W-6p6RohqUqrQMSxfhBZK9qYdZl8GocY/view?usp=sharing
	SN1 Reaction	https://drive.google.com/file/d/1IIS8g3gtQxkLOJ8VwEl8p52HbJ7dEQ-/view?usp=sharing
	Diff .between SN1 and SN2	https://drive.google.com/file/d/1Yd_9fFFiQeltVmvAhaoCsGWP-dr24wi4/view?usp=sharing
Dr. Shinde V S	Introduction of Nanomaterials	https://youtu.be/MuH6KOIRBiw
	Substitution in square planer complexes	https://youtu.be/eyQd5knSWRo
	Application of Trans Effect	https://youtu.be/w2NLKRTuwOY
	HSAB Principle	https://youtu.be/JuUbnW2l-Wg
	Basic concepts of Stability and liability	https://youtu.be/kDzn4nK40ro
	Chelate effect, stoichiometric and Intimate mechanism	https://youtu.be/vGHyg_qfBqw
	Introduction of electron transfer reactions	https://www.youtube.com/watch?v=EHYzavtFgzA
	Outer Sphere Mechanism	https://youtu.be/R6z-PBU-Lgw
	Inner sphere mechanism	https://youtu.be/zBtdR5rrizY
	Factors affecting on OSM	https://youtu.be/oknZkM-rhSM
		Factors affecting on ISM
	Excited state of outer sphere mechanism	https://youtu.be/ycpp69jbx6w
	Two electron transfer reactions	https://youtu.be/G6dGPUv22F4
	Substitution in Cis and Trans Complexes.	https://youtu.be/nxtEnOo2_hc
	Oxidative addition reaction	https://youtu.be/hpEG_jc597E
	Reductive Elimination Reaction	https://youtu.be/od1YwW41X5g
	Insertion Reaction	https://youtu.be/ERBCmN8JwII
	Jablonski diagram	https://youtu.be/PvC_Uo4_3TE
	Quantum yield	https://youtu.be/KHCMRbQgbbs
	Photochemistry of Chlorophyll	https://youtu.be/Bvn0z9woHqU
	Photochemistry of Co	https://drive.google.com/file/d/1vKBLuqmo7k3-ThF5V3SPF1g9zo5twEak/view?usp=sharing
Dr. Meshram M P	MSc-II:L1 -Retrosynthetic analysis	https://www.youtube.com/watch?v=3gnJmvdKUv0&list=L&index=60&t=10s
	MSc-II:L2 -Retrosynthetic analysis	https://www.youtube.com/watch?v=4C1cuRhDJbU&list=L&index=59
	MSc-II:L4 -Retrosynthesis analysis,	https://www.youtube.com/watch?v=HiKT6Qx6Cbg&list=L



	multistep synthesis	L&index=57
	MSc-II: L5-Functional Group Interconversion (FGI)	https://www.youtube.com/watch?v=AhhnyI9tUY&list=LL&index=56&t=59s
	MSc-II: L6- Functional group interconversion	https://www.youtube.com/watch?v=3sxTheQ9yBI&list=LL&index=54
	MSc-II: L7-Two-Group Disconnections	https://www.youtube.com/watch?v=86N43XEJqqg&list=L&index=55
	SYBSc: L1- Introduction	https://www.youtube.com/watch?v=mBmI1sMWDJY&list=LL&index=52
	SYBSc: L3- Stability of Benzene	https://www.youtube.com/watch?v=hiqQfvwv6p8&list=LL&index=50
	SYBSc: L4- Preparation of Benzene	https://www.youtube.com/watch?v=xF65snGTXlg&list=LL&index=51
	SYBSc: L5- Reactions of Benzene	https://www.youtube.com/watch?v=SA5Zo3jmH9k&list=L&index=47
	SYBSc: L6- Reactions of Benzene	https://www.youtube.com/watch?v=STmwGRjCHio&list=LL&index=48
	SYBSc: L7- Reactions of Benzene	https://www.youtube.com/watch?v=U-QXKsb3TP0&list=LL&index=49
	MSc-II: L8- Two-group Disconnections	https://www.youtube.com/watch?v=ZVEAC2BNBCs&list=LL&index=46
	MSc-II: L9- C-C Disconnections	https://www.youtube.com/watch?v=4ZvNO9G8n7E&list=L&index=2
	SYBSc: L8-Introduction and Nomenclature	https://www.youtube.com/watch?v=aiMg4de8VJ4&list=LL&index=45
	MSc-II: L10- C-C Disconnections	https://www.youtube.com/watch?v=ugTXV0CnUnE&list=LL&index=44
	MSc-II: L-13- 1,1 C-C Disconnections	https://www.youtube.com/watch?v=IYzqBG3DxN4&list=L&index=41
	MSc-II: L-14-1,1 C-C Disconnections	https://www.youtube.com/watch?v=nsuTQquc33Q&list=L&index=39
	SYBSc: L-9-SN ¹ reaction and its mechanism	https://www.youtube.com/watch?v=K2Bwec69X8s&list=L&index=38
	SYBSc: L10- SN ¹ reaction and various factors	https://www.youtube.com/watch?v=75e7bbwDb4k&list=L&index=37
	SYBSc: L-11-SN ¹ reaction and Stereochemistry	https://www.youtube.com/watch?v=qQL56fdYp14&list=L&index=35
	SYBSc: L-12-SN ² reaction	https://www.youtube.com/watch?v=kZ4VplA96A&list=L&index=36
	MSc-II-L-17-1,3-Difunctional compounds	https://www.youtube.com/watch?v=xBn8xa0K9F0&list=L&index=34
	MSc-II-L-18-Disconnection to Unsaturated carbonyl compounds	https://www.youtube.com/watch?v=JjN_KaAuCag&list=L&index=32
	SYBSc: L-13-SN ¹ reaction	https://www.youtube.com/watch?v=DaEzHaMU7kk&list=LL&index=31
	SYBSc: L-14- Preparation of alkyl halide	https://www.youtube.com/watch?v=nIqdHhE3D1I&list=LL&index=29
	SYBSc: L-15-Preparation of alkyl	https://www.youtube.com/watch?v=pZtuu9o3q_M&list=LL



halide	&index=30
SYBSc: L-17-Reactions of Alkyl Halides	https://www.youtube.com/watch?v=wSbYBhiXkpQ&list=LL&index=27
SYBSc: L-18- Reactions of alkyl halides	https://www.youtube.com/watch?v=SohYi0VfpHA&list=LL&index=26
MSc-II: LMS -Two-group Disconnections-Chunk 1	https://www.youtube.com/watch?v=wqFMiJz4Kmo&list=LL&index=23
MSc-II: LMS -Two-group Disconnections-Chunk 2	https://www.youtube.com/watch?v=JoS5__JNkN0&list=LL&index=22
MSc-II: LMS -Two-group Disconnections-Chunk 3	https://www.youtube.com/watch?v=BvZfXah2jR4&list=LL&index=21
MSc-II: LMS -Two-group Disconnections-Chunk 4	https://www.youtube.com/watch?v=67yQTWyW59I&list=LL&index=24
MSc-II: LMS -Two-group Disconnections-Assignment	https://www.youtube.com/watch?v=NuvvxzIOLl2c&list=LL&index=25
MSc-II: LMS -L-12-Aldol style disconnections	https://www.youtube.com/watch?v=90JNGqexCo4&list=LL&index=20
MSc-II: LMS -L3-Claisen Ester disconnections	https://www.youtube.com/watch?v=XSbI667hyGM&list=LL&index=18
SYBSc: L-19-Aryl Halides	https://www.youtube.com/watch?v=szETz9MWzn0&list=LL&index=19
MSc-II: LMSTwo Group Disconnection-Chunk 1	https://www.youtube.com/watch?v=rR_tdsHqTUA&list=LL&index=16
MSc-II: LMSTwo Group Disconnection-Chunk 2	https://www.youtube.com/watch?v=D7Ud_lcQcco&list=LL&index=15
MSc-II: LMSTwo Group Disconnection-Chunk 3	https://www.youtube.com/watch?v=gTPtF0w_n0w&list=LL&index=17
MSc-II: LMSTwo Group Disconnectio-Pre cap	https://www.youtube.com/watch?v=stKAk0nzQZ8&list=LL&index=14
SYBSc: L-20-Aryl Halides	https://www.youtube.com/watch?v=SMfac9oCD8E&list=LL&index=13
SYBSc: L-21-Alcohols	https://www.youtube.com/watch?v=OgvEh3PcmRw&list=LL&index=12
SYBSc: L-22-Alcohols	https://www.youtube.com/watch?v=h7pJd1BeL4U&list=LL&index=11
MSc-II: LMS -L19-1,5 Related Functional Groups	https://www.youtube.com/watch?v=FDZjmch8Ve8&list=LL&index=10
SYBSc: L-23-Alcohols	https://www.youtube.com/watch?v=P6Z23VeBhG8&list=LL&index=8
SYBSc: L-24-Alcohols	https://www.youtube.com/watch?v=HBjLpyEE5HM&list=LL&index=9
SYBSc: L-25-Phenols	https://www.youtube.com/watch?v=RO341zdLnlJ&list=LL&index=4
SYBSc: L-26-Phenols	https://www.youtube.com/watch?v=4_V4pUZ6i4Q&list=LL&index=7
SYBSc: L-27-Phenols	https://www.youtube.com/watch?v=FlwbwzmqGUA&list=LL&index=3
SYBSc: L-28-Ethers	https://www.youtube.com/watch?v=kEs40IMCRlg&list=LL



		L&index=6
	SYBSc: L-29-Ethers	https://www.youtube.com/watch?v=poDuiyFeRyA&list=LL&index=5
	SYBSc: Aromatic Hydrocarbons	https://www.youtube.com/watch?v=Ha2REJizaxU&list=LL&index=2
Ahire P S	Introduction Of Syllabus Chemical Kinetics	https://drive.google.com/file/d/1p7gNAg6p7WKqisdK8Qv09zyTW1dDow7z/view?usp=sharing
	Thermodynamics	https://drive.google.com/file/d/1TcucJpXz5wJATWZv9pVAcjIw4A_z9c0o/view?usp=sharing
	Basic Concepts in Inorganic ChemistryMetalloenzyme, Cofactors, Coenzyme, Apoenzymes substrate,etc.	https://youtu.be/U2Zp0i2P5QA
	Zinc Metalloenzyme	https://youtu.be/qHUcnl6sdn0
	Blue Copper Proteins	https://youtu.be/ENXL7U2AB4Q
	Oxidase,Structure of Blue Oxidase,	https://youtu.be/dyfnPGYAke8
	Types of Blue Oxidase ,Functions of different classes of Blue Oxidase .	
	Structure of Plastocynin ,Reaction of Plastocynin,Function of Plastocynin ,	https://youtu.be/I_nFkYdYA24
	Structure Of Tyrosinase Reaction of Tyrosinase Function of Tyrosinase	https://youtu.be/6D7kOB3rSuY
	Structure Of Galactose Oxidase ,Reaction of Galactose ,Function of Galactose Oxidase.	https://youtu.be/1GPMJWIF-TI
	Structure Of Super oxide Dismutase ,	https://youtu.be/i2q1fljz_LA
	Reaction of Superoxide Dismutase,Types of superoxide dismutase,	
	Function of superoxide dismutase,	
	Properties of Maganese,Application of Maganese ,Biochemistry of maganese.	https://youtu.be/2HB2ortWHdA
	Mo-Cofactors, Molybdopterin ,FeCoMo cofactors	https://youtu.be/yBrymUc5NFc
	Hydroxylase,Hydroxylation,	https://youtu.be/NgRFBpnApqI
	Types of Hydroxylation reaction	
Non -heme iron,Heme Iron,	https://youtu.be/ZdzPWikZODw	
Sources of Non Heme Iron.		

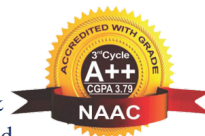


Maratha Vidya Prasarak Samaj's

KRT Arts, BH Commerce and AM Science (K.T.H.M.) College, Nashik 422002

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Antagonism Between Cu and Mo	https://youtu.be/EQtIiW9yXn8
Characteristics of Vit.B12,	https://youtu.be/8I4rqNZQXAc
Vit.B12 and its Model compounds	
Adenosylcobalamine Coenzyme,	https://youtu.be/BuFyPoSpQ8g
Methylcobalamine as Cofactor.	
Actions of cobalamine,	https://youtu.be/DY9X25Ta2rM
Ribonucleotide Reductase.	
Biochemistry-chemistry of Lithium,Distribution of lithium in Body.	https://youtu.be/xszjxTmcjNk
Isotopes of Lithium	https://youtu.be/ImFK2kOtwz4
Nucleases, Types of nucleases, Interaction of metal complexes with DNA.	https://youtu.be/XdxB5BdLgUw
Reaction of metal complexes with DNA,Activity of [Cu(phen) ₂] ⁺ complex	https://youtu.be/isP2IvP5KPk
Characteristics, Medical uses, side effects of Cisplatin, Carboplatin and Iprolatin platinum complexes.	https://youtu.be/FxxOrJ-HE5g
Development in new platinum drug Complexes, Di-Nuclear, Trinuclear platinum metal complexes.	https://youtu.be/exANhIv-MCY
Determination of platinum Drug levels, Pharmacokinetics.	https://youtu.be/_UCER3b9Uis
Platinum Chemistry Mechanism of Action Structure-specific Damage recognition protein Mechanisms of resistance to cisplatin/carboplatin.	https://youtu.be/Vs_H8Yvb0pA
Use of chelating agent Matrix metalloproteinase	https://youtu.be/hBMzUXH3T74
Modulation of cellular responses by metal containing drugs	
Metalloproteinase	https://youtu.be/RmzYLCPAbTk
Drugs metal based Chemotherapeutic drug Metal complexes as diagnostic agent	
Chemistry and properties of Bismuth	https://youtu.be/hyoAa4trWQw
Bismuth(III) Compound	
Bismuth(V) Compound Bismuth in	https://youtu.be/VwMb1NwuLBM



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Medicine	
Helicobacter Pylori Bacterium	
Isomerism in coordination complexes	https://youtu.be/uY_EZnh8ths
Isomerism in coordination complexes-II	https://youtu.be/dbtKusHUPzw
Types of Isomerism	https://youtu.be/jH8i4lbtIFg
Isomerism in coordination Number -4 and Coordination Number -6	https://youtu.be/xJPT2RZHloA
Valence bond theory of Coordination Compounds	https://youtu.be/3_LiyW9K7TY
Assumptions of VBT	https://youtu.be/qoy3Fvzpfau
VBT of Coordination Compounds	https://youtu.be/31j60plOU-E
Inner and outer orbital complexes	https://youtu.be/31j60plOU-E
Crystal Field Theory	https://youtu.be/zIO6tsy9te0
Application of CFT, weak field Ligand	https://youtu.be/zIO6tsy9te0
Application of CFT, Strong Field Ligand	https://youtu.be/zIO6tsy9te0
Distribution of d-electron in strong and weak field	https://youtu.be/bZZ4i2Eo01o
CFSE and magnetic properties	https://youtu.be/3ZLMmosOS18
Affecting magnitude of CFSE	https://drive.google.com/file/d/1esIuQBFV3rQBkQFORQiaTj7q3yZH6omP/view?usp=classroom_web&authuser=0
d-d transition and colour of the complex	https://drive.google.com/file/d/1OnK59XDRiiiBDJBx74FwmpGJ5sJARlnH/view?usp=classroom_web&authuser=0
Application of CFT And Tetrahedral complexes.	https://drive.google.com/file/d/1OnK59XDRiiiBDJBx74FwmpGJ5sJARlnH/view?usp=classroom_web&authuser=0
Spectrochemical series Limitations of CFT nephelauxetic effect	https://drive.google.com/file/d/1dIOhN3uFAE9yV6YHPnYhV9brJt8r-DRi/view?usp=classroom_web&authuser=0
Syllabus discussion	https://youtu.be/l-kYG0ZkJxk
Basic concepts to Coordination chemistry	https://youtu.be/fPCqCMSIBSs
Introduction to coordination chemistry, EAN rule	https://youtu.be/1JRKF-y9Eks
Double salts and coordination Compound	https://youtu.be/xP8XbIp_Aec



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	Oxidation state of Metal	https://youtu.be/RvgO_DKZgMY
	Werner's coordination theory part-I	https://youtu.be/PUBGIFnIX_A
	Werner's coordination theory part-II	https://youtu.be/0OZ2HtZleOM
	Stability constant and stepwise stability constant	https://youtu.be/UdmghVrdKXw
	IUPAC nomenclature part-I	https://youtu.be/UxALDWXETsQ
	IUPAC nomenclature part-II	https://youtu.be/X77_ZUjZzmQ
	MOT application	https://youtu.be/fPCqCMSIBSs
	MOT of Covalent Bonding	https://youtu.be/ZpWJ8cBnkos
	Comparison between MOT and VBT	https://youtu.be/Fu43k9lqVsc
	[LCAO] principle of MOT	https://youtu.be/O-rKiu6mHg
	Rules for LCAO	https://youtu.be/sjUpOjpN5YE
	S-P,P-P and d-p Combination ,Nonbonding combination of orbital's	https://youtu.be/U0VwdoZr1wU
	MOT treatment of Homonuclear diatomic orbitals	https://youtu.be/LcBcyLsZIK8
	MO energy level diagram for Homonuclear diatomic molecule.	https://youtu.be/ybDRdBAHfTs
	MO energy level diagram for Homonuclear diatomic molecule C ₂ ,N ₂ and O ₂	https://youtu.be/GwrjCQWrIaE
	O ₂ ,O ₂ ⁻ and O ₂ ²⁻ Molecule	https://youtu.be/--bPy4A7VOM
	MO energy level diagram for Heteronuclear diatomic molecule	https://youtu.be/YPZbSDbTKKM
	Difference between VBT and MOT	https://youtu.be/TWLjtwMXDL4
Dr. Rote R. V.	TGA introduction	https://youtu.be/0k3oZspaPkI
	TGA Instrumentation	https://youtu.be/zkqy55r-VJo
	TGA Factors affecting	https://youtu.be/R8eU3EDvLK4
	TGA Application	https://youtu.be/4O9AlrLzsO0
	DTA Introduction	https://youtu.be/iS4BDdoM278
	DTA instrumentation	https://youtu.be/pfPXx_rnObs
	DTA factors affecting	https://youtu.be/8uKI-1v4YbU
	DSC instrumentation	https://youtu.be/g7nzI9FPe00
	TPD instrumentation	https://youtu.be/gVyRZ-EdLeU
	TPD Instrumentation	https://youtu.be/VzwIcV1ndAw

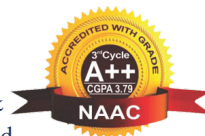


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Concept and scope of Environmental Chemistry	https://youtu.be/SLxUDzjhy90
BOD, COD, DO	https://youtu.be/Y_0IkG0bqeQ
ppm, ppb, ppt, mass per unit volume	https://youtu.be/4eKdAoKb5II
Segments of environments	https://youtu.be/7DPsAgCH3RY
Composition of atmosphere	https://youtu.be/XMNxlf1JhaY
Reaction in atmosphere	https://youtu.be/WQceDC_XjTE
Chemistry of ozone and sulphur oxides	https://youtu.be/LLKvMqBDqFA
Chemistry of nitrogen oxides and Chlorides	https://youtu.be/bdPbbE4r6dw
Air Pollution, Primary Air Pollutants, (CO)	https://youtu.be/aJsBklFsj2g
Air Pollution, Nitrogen Oxides (NO _x)	https://youtu.be/GQvV4cbk5h8
Air Pollution, Sulphur Oxides (SO _x)	https://youtu.be/yZJOu5ETuEw
Hydrocarbons, Sources, Sink	https://youtu.be/XO1diqPFSOY
Particulates, Sources, Sink, Role, Mechanism	https://youtu.be/KOK6BeFDIQM
Types Of Particulate Matter, Inorganic Particulates	https://youtu.be/y6alVpLNKeI
Sampling, Absorption, Cold Trapping	https://youtu.be/HDkOqNQ-I2Q
Effect Of Atmospheric Pollution	https://youtu.be/YjT_B3Ah52Q
Effect Of Pollution, Formation Of Smog	https://youtu.be/jLnrvnELp_0
Ozone Layer, Formation Of Ozone	https://youtu.be/29ZTufjvbg4
Chlorofluorocarbons (CFC's)	https://youtu.be/i_4e15IXWqU
Bhopal Disaster, MIC	https://youtu.be/gO4loBxBRcY
Hydrosphere and Water Pollution	https://youtu.be/v7jwHb4DJT0
Microbially mediated aquatic Reactions	https://youtu.be/WIpC8Bv_qjM
Water Pollution, Classification of water Pollution	https://youtu.be/bUXAgIRykw4
Inorganic Pollutants, Acid mine drainage	https://youtu.be/SYsDOsCHkW0
Pesticides, Insecticides	https://youtu.be/xlBwNkIx8qk
Detergent	https://youtu.be/VVQZd2k-RRo
Oil Pollution	https://youtu.be/Ec4uWOUw8Bs
Thermal Pollution	https://youtu.be/8nPMChRmp4k

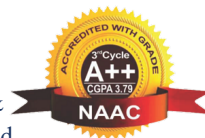


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	Monitoring Technique and methodology	https://youtu.be/tdZmYqUy-GE
	Monitoring Technique	https://youtu.be/5MPuLiBiI2g
	Contribution of chemistry to human life	https://youtu.be/Jy5K87YFrzE
	Hydrosphere	https://youtu.be/W-ch9_10Dc0
	Chemistry of ground water and Rain water	https://youtu.be/ZkJfX49OPCk
	Geosphere	https://youtu.be/d5WvHjvoHWc
	Biosphere	https://youtu.be/YwXYw8yFIJk
	Environmental Chemistry and Green Chemistry	https://youtu.be/1lr8lr6Zw68
	Green Chemistry and synthetic chemistry	https://youtu.be/lFuH5UIDy1k
	Waste reduction and Waste prevention	https://youtu.be/GzgKe0SOQl4
	Use of alternative basic chemicals	https://youtu.be/bIx9TFD1yvM
	Examples of Green Synthesis	https://youtu.be/M53MuJrMGZc
	Green solvents and alternative Methods	https://youtu.be/X2vWuLILqjo
	Application of new methodologies	https://youtu.be/pd41Rv8g_LI
Waghchaure J H	vibrational modes of H ₂ O molecule	https://youtu.be/Ys1yo0xSpYs
	character table for C _{3v} point group	https://youtu.be/axTGIyBYTfU
	SALC symmetry adapted linear comb	https://youtu.be/VltPsHDLDMQ
	Kramer's degeneracy	https://youtu.be/h017m4IjicE
	Hyperfine splitting	https://youtu.be/t-_gxa2SUag
	ESR Spectroscopy	https://youtu.be/kehI8hNJBiw
	application of XRD	https://youtu.be/qBFjABj4Le8
	Auger electron spectroscopy	https://youtu.be/XJmlQyQQtAM
	electrospray interface	https://youtu.be/z0uxrVBQvOM
	Interface technique	https://youtu.be/gQTuPHCaaZg
	numerical on charge transfer	https://youtu.be/3VQbCN2RRoY
	Racah Parameter	https://youtu.be/ETEp-mgCXNo
	orbital contribution to magnetic moment	https://youtu.be/9ovHb_LikLA
	Hole formalism	https://youtu.be/X4sCfmHGzvM
forbidden and allowed transition	https://youtu.be/L9NoWPduK5M	

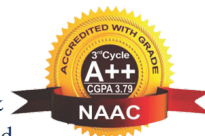


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Electronic Spectra	https://youtu.be/N1nT4Y5513w
orbital contribution to magnetic moment	https://youtu.be/9ovHb_LikLA
magnetic property	https://youtu.be/h8YIJ80wEuc
microstate table for p ² configuration	https://youtu.be/Vq6Fl_WWs88
microstate table	https://youtu.be/8SSeZxiCFGE
Degeneracy	https://youtu.be/jy-D5L_QG-M
RS term	https://youtu.be/u-As0b6JveA
RS term	https://youtu.be/qNyrg8pUkvQ
character table for C _{3v} point group	https://youtu.be/axTGIyBYTfU
mulliken symbol for d _{3h} point group	https://youtu.be/eBoGzWhVLEk
Mulliken symbol for T _d point group	https://youtu.be/pNxF-9j7EDY
Application of group theory to IR Sp	https://youtu.be/zs2Kl9YctDs
character table	https://youtu.be/siPsXVwyDI4
vibrational modes of H ₂ O molecule	https://youtu.be/Ys1yo0xSpYs
vibrational modes of SO ₂ molecule	https://youtu.be/AgO9fFRPRYy
SALC symmetry adapted linear combination	https://youtu.be/VltPsHDLDMQ
SALC for CO ₃ ²⁻ ion	https://youtu.be/wnu20kWYgI4
Hybridization of atomic orbital	https://youtu.be/ph74SVsmShI
Quantum number	https://youtu.be/Rxoc8SP2G44
Spin orbit coupling	https://youtu.be/9ddrYMhaUk4
Hunds rule	https://youtu.be/Vk3esli2yBM
RS term	https://youtu.be/_Wnds21-UxQ
RS term	https://youtu.be/UEBTnzS25Ic
Mulliken symbol for d _{2h} point group	https://youtu.be/LgCABe5YWYI
Reducible representation	https://youtu.be/F5UbmpXSpWw
Group theory character table	https://youtu.be/iM4EPnaZ7jc
Mulliken symbol	https://youtu.be/iD1B4WmYMuo
how to derive character table	https://youtu.be/dvqunfKglWY
point group of H ₂ O and NH ₃	https://youtu.be/Mg4a6JsgG5Y
point group	https://youtu.be/XWltw4tWsDQ



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	equivalent symmetry elements	https://youtu.be/v2s5ZldHKiA
	product of symmetry operations	https://youtu.be/PFM6jdqSIPA
	Kramer's degeneracy	https://youtu.be/h017m4IjicE
	g value and Drago's rule	https://youtu.be/tjxs1K14I94
	Instrumentation of TGA	https://youtu.be/ZBcgAaVp9sg
	Factors affecting on TG curve	https://youtu.be/-JMWW9Adh6g
	Instrumentation of TGA	https://youtu.be/ukuzWPfTyBc
	application of TGA	https://youtu.be/NCaE85XIi2E
	DTA introduction thermogram	https://youtu.be/Dwr8R29-WYk
	DTA instrumentation	https://youtu.be/O7T-hxwwTcY
	Application of DTA	https://youtu.be/PghqLLe5sC8
	DSC	https://youtu.be/bsxS2Z5waGs
	X-ray production	https://youtu.be/AP2LP2NL7Q
	Bragg equation	https://youtu.be/8g7uN8BCG04
	X-RAY diffraction method's	https://youtu.be/bSfUhWyDOgc
	application of XRD	https://youtu.be/qBFjABj4Le8
	Fluorescence spectroscopy	https://youtu.be/v6w3x7wqenU
	application of fluorescence spectroscopy	https://youtu.be/OU-p8YIFLjY
	symmetry elements and operations	https://youtu.be/vMk6ExcRZa8
	Improper axis of rotation	https://youtu.be/zdd1fOYoYbg
	FT-IR spectroscopy	https://youtu.be/F5AYxh6zN9A
	plane of symmetry	https://youtu.be/QQpLPjyfQBz
	Auger electron spectroscopy	https://youtu.be/XJmlQyQQtAM
	symmetry operations	https://youtu.be/dMoDNYFTZGU
	Ion exchange	https://youtu.be/tbRBtw2kzTw
	Degraded alkali soil and soil testing	https://youtu.be/hZDIw2audeM
	Alkali soil	https://youtu.be/oVLgMPgpNGo
	Problematic Soils	https://youtu.be/pBpUqqEp2iU
	Factors controlling soil reaction	https://youtu.be/iDv5YGluQhw
	Chemical properties of soil	https://youtu.be/zjWdDxdPO6Y
	Surface soil and subsoil	https://youtu.be/WBurKIB1Ez3
	Soil water.atmosphere	https://youtu.be/iCozZuuPGas



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	Physical properties of soil	https://youtu.be/XGd3HqqMKks
	scope and importance, agrochemistry	https://youtu.be/5gj8a1JUKVA
	soil chemistry	https://youtu.be/hcdIb3BYJB8
Dr. Patil .P.S.	Topic- Introduction & Physical effects of Organic Molecules	https://youtu.be/dD00GLqvgd8
	Topic: Qualitative Analysis of organic Compounds	https://youtu.be/XjES3pRMnc8?feature=shared
	Topic -Inductive Effect With Examples	https://youtu.be/GqiR71oe8Qs
	Topic : Resonance Effect	https://youtu.be/-BeRGraF-2M
	Topic : Applications of Inductive effect	https://youtu.be/p5RYfK--FCU
	Topic-Application of resonance Effect Strength of acid and base	https://youtu.be/E6wplcDqOFg
	Topic- Hyperconjugation and Tautomerism	https://youtu.be/IWx_if9EN3o
	Topic- Structure and Shape of Organic Molecules.	https://youtu.be/CJkauUseTow
	Topic- Molecular Forces and Bond Polarity	https://youtu.be/e2WXeAq8wPY
	Topic- Electrophiles ,Nucleophiles and Intermediates	https://youtu.be/R4NP5SrycYU
	Topic- Aromaticity, Huckel's Rule	https://youtu.be/uC7swvj2Rk
	Topic: Preparation Of Alkanes	https://drive.google.com/file/d/1tVOrdqfEBvH3NT_-R5s3QC4H5Yy31WSL/view?usp=sharing
	Topic: Alkanes	https://drive.google.com/file/d/1jWrSJ7NrP1Ral8LvkeRHA RcFNvF15Xxr/view?usp=sharing
	Topic: Reaction Of alkanes	https://drive.google.com/file/d/1_Zvckz703fds7ta2Wo-YDn5UF5H68fLo/view?usp=sharing
Topic: Alkynes	https://youtu.be/NaUz4BQNhyU	
Topic : Tablets and Shelf Life	https://youtu.be/bBPX2HFdnTs	
Dr. Gaikwad S S	Titration Of SA & SB	https://youtu.be/DfMODfU9wCs
Dr. Jadhav N K	Asymmetric Synthesis	https://youtu.be/bGQcKdJZYec




Prof. (Dr.) S. R. Labhade
Head, Department of Chemistry

Head
Dept. of Chemistry
K. T. H. M. College, Nashik - 2.

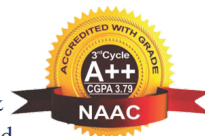


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List of Available PPT

Name of the Teacher	Topic of ppt
Gurule A.C.	Basics of Thermodynamics
	Chemical energetics
	Enthalpy of various reaction
	Kirchoff equation derivation
	Introduction to degree of dissociation
	pH and buffer solution
	Ionization constant
	Chemical Equilibrium
	Introduction to quantum
	Photoelectric effect
	Double beam diffraction pattern
	Bohrs theory
	Diffraction of light
	Significance of wave function
	Photoelectric effect
	Heisenberg Uncertainty Principle
	Significance of wave function
Variation of nodes	
Ghotekar B.K.	2 -D NMR SPECTROSCOPY
	Introduction of analytical chemistry
	Calculation used in analytical chemistry
	PH METRY
	Chromatographic methods
Dr. K.R. Labhade	Rearrangement Reactions
	Elimination Reactions
	Polynuclear and heteronuclear aromatic compounds
	U.V. Visible Spectroscopy
	Thermal method of Analysis
	Gravimetry
	Introduction to Spectroscopy

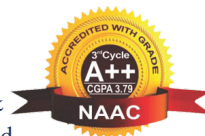


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	U.V. Spectroscopy
	I.R. Spectroscopy
	Stereochemistry of disubstituted cyclohexane
	HPLC
	Instrumental Methods of Chromatographic analysis
	Flame Emission Spectroscopy
	Solvent Extraction
	Atomic Absorption Spectroscopy
	Gas chromatography
Dr. S.R. Labhade	Atomic Absorption Spectroscopy
	Flame emission Spectroscopy
	Polarography
	Gas Chromatography
	High Performance Liquid Chromatography
	Chromatography
Khalkar A D	UV Spectroscopy, UV spectroscopy Components (detector, amplifier' Read out device) Application
	Scanning Tunnelling electron microscopy(STEM)
	Homogeneous catalysis.
	Fluorescence and phosphorescence
	Excited state producing fluorescence and phosphorescence, energy level diagram,
	rate of absorption and emission ,deactivation process
	Variable affecting fluorescence and phosphorescence ,Emission and Excitation spectra
	Instrument for measuring Fluorescence (Fluorometer , Spectro fluorometer)
	Instrument for measuring Phosphorescence
	Chemiluminescence , Types of chemiluminescence , luminator , application
	XPS
	AES
	Introduction of EPR
	Spectroscopy ,Magnetic
	property ,Electron spin quantum number ,Working of EPR spectroscopy

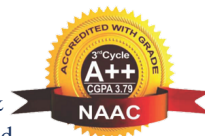


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ESR
Electron Spectra (PE Spectra and AE Spectra)
qualitative analysis, peak identification,
chemical shift, problems with insulating materials,
Quantitative analysis: peak and
sensitivity factor, composition depth profiling
Depth profile
EPR transition and selection rule
Presentation of spectra and g factor
Nuclear hyperfine splitting, radical
containing one proton, selection rules, radical containing a set of
equivalent protons, radical containing a set of multiple protons, radical
containing
multiple sets of protons ($I = \frac{1}{2}$), radical containing multiple sets of
proton ($I > \frac{1}{2}$)
Introduction to Aldehyde and Ketone
Preparation of aldehyde
Preparation of ketone
To study the variation of mutual solubility temperature with
concentration for the phenol - water system
study the effect of added electrolyte on the critical solution temperature
of
phenol-water system and to determine the concentration of the given
solution of electrolyte.
Nucleophilic addition to carbonyl group , Condensation reaction with
ammonium derivatives , Iodoform test
Aldol condensation ,Cross aldol condensation , Cannizzaro reaction ,
Cross Cannizzaro reaction
Wittig reaction ,Benzoin condensation
Introduction ,Structure , classification ,nomenclature , Preparation of
carboxylic acid by acidic and alkaline hydrolysis of esterLink
Reaction of Carboxylic acid (Substitution in alkyl group)
Functional derivatives of carboxylic acid
Preparation of functional derivatives of carboxylic acid
Preparation of Acid derivatives (Comparative study of Nucleophilic
substitution reaction of acyl derivative ,Reformatsky reaction , perkins
reaction)
Introduction and IUPAC Nomenclature ,Gabriel's Pthalimide Synthesis

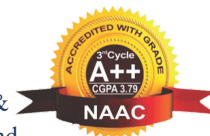


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Introduction and IUPAC Nomenclature ,Gabriel's Pthalimide Synthesis
Introduction and IUPAC Nomenclature ,Gabriel's Pthalimide Synthesis ,
Introduction and IUPAC Nomenclature ,
Preparation from Alkyl halides
Gabriel's Pthalimide Synthesis ,
Hoffmann Bromamide Reaction,
Hofmann versus SaytzeffElimination
Electrophilic
Substitution (Case Aniline)
Nitration, Bromination and Sulphonation
Diazonium
Salts, Introduction,preparationofAromatic Amines
Baeyer's Strain
Theory ,Heat of Combustion
of Cycloalkane
Structure of Cyclohexane ,Axial and
Equatorial Hydrogen Atoms , Conformations of Cycloalkane
Stability of conformations of cyclohexane.
Methyl and Tert-Butyl Monosubstituted cyclohexane , 1,1 and
1,2-Dimethyl Cyclohexane's and their Stability
Oxidative addition
Oxidative addition mechanism
Reductive elimination
Reductive Elimination reaction
Migratory insertion
Reductive elimination reaction mechanism
Beta hydride elimination reaction
Tollman catalytic cycle
Link
Organometallic reaction
Metathesis
C-C Coupling reaction (Heck Reaction)

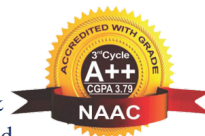


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	Suzuki Coupling
	Cativa process
	Aromatic Hydrocarbon
	Topic :Classification of Homocyclic Compound
	Topic : Aromatic Character and Huckel Rule
	Reaction of Benzene
	R62eaction of Benzene
	Classification of alkyl halide
	General methods of preparation of alkyl halideLink
	reaction of alkyl halide
	Phenol
	Reaction of aryl halides
	Reactivity and relative strength of carbon -halogen bond in alkyl, allyl benzene ,vinyl, and aryl halides (Effect of nitro substituent is high at Ortho and Para position)
	Alkyl halide : Introduction , Classification , Structure , Classification ,and Nomenclature
	Alkyl halides :General methods of preparation of alkyl halides
	lkyl halides : Reaction of Alkyl halide
	Substitute reaction (SN2):
	Mechanism of substitute reaction(SN2) :
	SNi Reaction
	SN1 Reaction
	Diff .between SN1 and SN2
	Mechanism of Base catalysed Ester
	Reaction of Carboxylic acid
	Preparation of Carboxylic acid
	Nomenclature of Amine
	Amines
Dr. V S Shinde	Basic concepts of Stability and liability
	Chelate effect, stoichiometric and Intimate mechanism
	Factors affecting on ISM
	Introduction of photochemistry, laws of photochemistry, types of photochemical reaction



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	Recapitulation of fluorescence and phosphorescence
	Photochemical reactions irradiating d-d transition
	Classification of Nanotechnology
	Annation reaction, Acid hydrolysis, Factors affecting on acid hydrolysis
	Base Hydrolysis, Racemization and Isomerization of Octahedral complexes
	Trans-effect, Series of trans-effect and theories of trans-effect
	Basic Concept of Stability and liability.
	stoichiometric and Intimate mechanism
Thakur S M	Lab Safety
	Mass Spectrometry
Dr. Meshram M P	L1: RETROSYNTHESIS: Designing Organic Syntheses
	L2: Retrosynthesis
	L1: Fermentation; L2: Amino acids & Vitamins
Ahire P S	Introduction Of Syllabus Chemical Kinetics
	Thermodynamics
Deshmukh R D	¹ H NMR spectroscopy
	Mass spectroscopy
	UV spectroscopy
	IR spectroscopy
	Industrial safety
	Laboratory safety
	Green chemistry
Dr Pawar R K	Syllabus discussion (CH-302)
Dr. Rote R V	Superconductivity
	Ceramic material
Waghchaure J H	Syllabus of Agriculture Chemistry
	Soil Chemistry
	Scope and Importance of Agrochemistry
	Definition of Soil and Components of Soil
Dr Patil P S	Topic : Introduction to Mass Spectrometry
	Ionization Tech.
	Instrumentation of Mass Spectrometer



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Topic : Types of Mass Analyser,
Topic : Detectors and Types
Topic : Nitrogen Rule and Ring Rule.
Topic : Steps in Interpretation of Mass Spectra.
Fundamentals of Chromatographic Methods of Analysis
Topic : Characteristics value of chromatogram
Topic: Chromatographic Theories
Topic: Rs, Rf value and Application
Topic: Creams and Capsules
Topic: Eye drops and ear drops
Topic : Gel and Nasal Preparations
Topic : Ointments, Oral liquids and Oral Powders.
Topic :Injection and Powder for Injection.
Topic : Tablets and Shelf Life
Topic :Limit Test For Aluminum, Arsenic.
Topic :Limit test for Heavy Metals, Chlorides, Iron.
Topic :Limit test for Lead, Potassium, Sulphate.
Topic :Limit test for Sulphated Ash, Total Ash, N-N-dimethylaniline
Topic: Iodin Value
Topic: assay of Compounds
Topic: different Assay of Compounds
Topic: Assays
Topic : Introduction to Mass Spectrometry

Prof. (Dr.) S. R. Labhade

Head, Department of Chemistry

Head
Dept. of Chemistry
K. T. H. M. College, Nashik - 2.



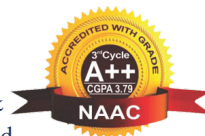


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List of Online Lecture

Name of the Faculty	Topic	Online lectures (Zoom,google,meet etc.)
Gurule A.C.	Thermodynamics	https://drive.google.com/file/d/1mLAR9NTbEOh5-ZzEqjEBpUz0Ro4ROXex/view?usp=sharing
	Reversible process	https://drive.google.com/file/d/1xEgI3CP77GUbjM3NC6C0hcXTGBqxtRvS/view?usp=sharing
	VSEPR Theory	https://drive.google.com/file/d/1J4e1fgDtu0Hk8qWJscSTE18GzoEmTiJ_/view?usp=sharing
	VSEPR theory lec-2	https://drive.google.com/file/d/1J4e1fgDtu0Hk8qWJscSTE18GzoEmTiJ_/view?usp=sharing
	Explosive reactions	https://drive.google.com/file/d/1dPUA_JIFBS_4DQI_DixDUUXba1qL43Wb/view?usp=sharing
	Collision theory of biomolecular reaction	https://drive.google.com/file/d/1Ystwd1jSYoyaaY1jC THsM7F9IF733G1X/view?usp=sharing
	Activated complex theory	https://drive.google.com/file/d/16FKBxzJXTiCLzWqyOqw2wb7VK7hYVUS_/view?usp=sharing
	Diffusion controlled reaction	https://drive.google.com/file/d/1tKagDDC80l8PudUJT-LJOazeWSXfgQhr/view?usp=sharing
	Boltzmann distribution law	https://drive.google.com/file/d/1yjhQejeZJCa42DICrkbGVU01A9dNSmzo/view?usp=sharing
Khalkar A.D.	polymers	https://meet.google.com/tza-hbes-vyz
	introduction of polymers	https://youtu.be/K7UWldlvVS0
	classification based on reinforcement	https://meet.google.com/cyq-bqxi-ccv
	reinforcement	https://meet.google.com/iid-aqif-giw
	reinforcement types	https://meet.google.com/jjy.mkgu-emy
		https://meet.google.com/jjy.mkgu-emy
Ahire P. S.	Chemistry	meet.google.com/wyu-wzee-itx
	Chemistry	meet.google.com/vbz-auqg-icu
	Chemistry	meet.google.com/ymc-ftyw-zfo
	Chemistry	meet.google.com/rfm-xyfj-qwj
	Chemistry	meet.google.com/vbz-auqg-icu
Deshmukh R. D.	Fragmentation pattern of different functional groups	https://drive.google.com/file/d/1n4iAcomlZxsUJICdClrOZiIvE628ch52/view?usp=sharing
	fragmentation pattern-1	https://drive.google.com/folderview?id=125gvo4KhZ3

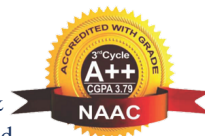


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	in MS	gj19RoxjZovCQBXDkrGCKb
Dr. Pawar R. K.	Zeolites	https://meet.google.com/lookup/fz74jkzt4s
		https://meet.google.com/lookup/fz74jkzt4s
		https://meet.google.com/lookup/gjyggvk5ap
		https://meet.google.com/lookup/gjyggvk5ap
		https://meet.google.com/lookup/gjyggvk5ap
		https://meet.google.com/chz-wdno-wvs
		https://meet.google.com/oab-veju-mcm
		https://meet.google.com/lookup/gjyggvk5ap
		https://meet.google.com/chz-wdno-wvs
		https://meet.google.com/sqx-jdfg-tzp
		https://meet.google.com/gkc-xpxk-erc
		https://meet.google.com/sir-kexg-iqk
		https://meet.google.com/sir-kexg-iqk
		https://meet.google.com/bwy-rpsx-umw
https://meet.google.com/rgk-dkwa-dra		
https://meet.google.com/kzh-skxh-vuh		
https://meet.google.com/lookup/fz74jkzt4s		
Dr. Rote R.V.	Process of cements	https://drive.google.com/file/d/1g1PMT8-5teNWBV9mdypkHXrtInFBOCBF/view
	Concrete Admixture	https://drive.google.com/file/d/1omCkGv3byEFSInDjF195zBVqZn1QJ88v/view
	Biomaterials	https://drive.google.com/file/d/1srzfg8eGNxnoq7mwi3N0tb3x1E_eKfnB/view
	Building block of nucleic acid	https://drive.google.com/file/d/1Y2qT8jIj99Bq7Vk_LsHMaU-dWG52RKq/view
	Biomaterial properties	https://drive.google.com/file/d/1KFOIrWeB5yOzPhGceGanR7gKa10JbtPR/view
	Inorganic thermal methods	https://drive.google.com/file/d/18EyhGzUJO-bktWXnkF2Pk5-xna7ZIbBA/view
	Applications of TGA	https://drive.google.com/file/d/1C8bSuxBK7ZidWGdT8YQzAmgHTndOfVFj/view
	Factors affecting on DTA	https://drive.google.com/file/d/1PIHUaRx Cf2q_i12gIJ1w0E1t3LrnkjTd/view
	DSC instrumentation	https://drive.google.com/file/d/1wbwmjt5WZ7VvNCpd7uDKja_cW8sUIaLE/view



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	Analytical Technique in water analysis	https://drive.google.com/file/d/1pewqQpqiBz_xjjym9SN7QxKR4gDwHyMw/view
	Detection of metals and metalloids	https://drive.google.com/file/d/10Nt0rCRLD5JofTZ1zuLqjd6kyOqi5YRP/view
	Detection Cr and Cu	https://drive.google.com/file/d/1pffjyndtP5Elp9FQbBntkAXcrpxPDZcX/view
Waghchaure J H	Chemistry	http://meet.google.com/ruv-wezi-xfy?hs=179&authuser=0
		http://meet.google.com/jca-esms-obf?hs=179&authuser=0
		https://meet.google.com/jxi-fykc-ny?hs=179&authuser=0
		http://meet.google.com/ebb-rcqn-erd?hs=179&authuser=0
		http://meet.google.com/qph-khfn-xes?hs=179&authuser=0
		http://meet.google.com/taf-syhf-ism?hs=179&authuser=0
		https://meet.google.com/jxi-fykc-ny?hs=179&authuser=0



Prof. (Dr.) S. R. Labhade

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List of Software

Name of the faculty	Name of the software
Dr. K.R. Labhade	ChemSketch
Khalkar A D	Chemdraw
Thakur S M	Chemdraw
Ahire P S	 cdu1202.exe
Deshmukh R D	Chemdraw ultra 8
Dr. PAWAR R K	Chemdraw
Dr. Rote R V	Chem draw
Waghchaure J H	Chemdraw
Dr. Shinde V.S.	Origin Pro
	3D- Symmetry
	Origin

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List of E-Books

Name of the faculty	Name of E-Book
Dr. K.R. Labhade	Recent Advances in Analytical Chemistry
	Organic synthesis
	Green Chemistry
	Analytical Chemistry
	Chromatography
Dr. S.R. Labhade	Analytical Chemistry by Gary D. Christian
	Analysis and Purification Methods in Combinatorial Chemistry By Bing Yan
	Chromatographic Methods 5th Edition by A. Braithwaite
	Gary D. Christian, Purnendu K. Dasgupta, Kevin A (3). Schug - Analytical Chemistry (2013, John Wiley & Sons)
	Handbook of Analytical Techniques, 2 Volume Set
	Handbook Of Instrumental Techniques For Analytical Chemistry - Fran A. Settle
	Inorganic Chemistry, 2nd Ed_0130399132
	Principles and Practice of Analytical Chemistry 5th ed - F.W. Fifield
	Skoog's- Fundamentals of Analytical Chemistry 8e HQ (Thomson, 2004).
Khalkar A.D.	Yang Leng Materials Characterization
	Structural Methods in Molecular Inorganic Chemistry, David W. H. Rankin, Norbert W. Mitzel, Carole A. Morrison, Wiley (John Wiley & Sons, Ltd.), 2013
	Introduction to Magnetic Resonance of Spectroscopy D.N. Sathyanarayana, I. K. International Publishing House Pvt. Ltd.
	Unique reactions in organometallic chemistry
Dr. Meshram M. P.	Research Methodology Study Material
Dr. Pawar R. K.	Inorganic chemistry by (Shriver & Atkins)
Deshmukh R. D.	Foye's principles of medicinal chemistry
	An introduction to medicinal Chemistry- Graham L. Patric
	Organic Chemistry- Clayden J.
	Analytical Chemistry-Gary Christian
	Molecular components of Cell- R. Garrett, Grisham C.M.



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	Concise Inorganic Chemistry- J.D. Lee
	Practical Organic Chemistry-F.G. Mann
	Medicinal Chemistry- Berger
	Advanced Organic Chemistry- J. March
	Principles of Instrumental Analysis- Skoog
Dr. Shinde V.S.	Molecular symmetry and group theory: a programmed introduction to chemical applications Edition: 2nd ed
	Coordination Chemistry
	Organometallic Chemistry: Fundamentals and Applications



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