



K. K. WAGH COLLEGE OF PHARMACY

(B. Pharmacy & D. Pharmacy)

Hirabai Haridas Vidyanagari, Amrutdham, Panchavati, Nashik - 422 003. (Maharashtra) India.

☎ : 0253 - 2221121, 2517003, 2510262 Web : www.pharmacy.kkwagh.edu.in

Email: principal-bpharmacy@kkwagh.edu.in, disp-bpharmacy@kkwagh.edu.in

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Theory Links

Unit	Chapter	YouTube Link
First Year-SEM I		
Subject: Human Anatomy and Physiology I		
Subject code: BP101T		
I	Definition and scope of anatomy and physiology, Levels of structural	https://www.youtube.com/watch?v=O22InQOK83k&pbjreload=101
	Homeostasis	https://www.youtube.com/watch?v=Of4ps8El2eI
	Cellular level of organization	https://www.youtube.com/watch?v=X6iktVriAKA
	Tissue level of organization	https://youtu.be/52ElKAd2Brk https://youtu.be/4m93KwQfmW4
II	Integumentary system Structure and functions of skin	https://youtu.be/uBy9fa52NUg https://youtu.be/XlyMekxNwMc https://youtu.be/8p3lvBavd2o https://youtu.be/hXDLNjKiROU
	Skeletal system Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular skeletal system	https://youtu.be/Dm7e_qjYRWc
	Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction	https://youtu.be/tFi0mfQGgV8 https://youtu.be/Czs5AYTR9eg https://youtu.be/Zd7KomJocZE
	Joints Structural an	https://youtu.be/TJq_DjqpmWQ
III	Body fluids and blood Body fluids, composition and functions of blood	https://www.youtube.com/watch?v=T7U-yzyFSQ4&t=4s https://www.youtube.com/watch?v=2qn4J41sqm8&t=6s
	Blood- Hemostasis	https://www.youtube.com/watch?v=ZeMoaU9Ta-s&t=4s
	Blood group ,Rh factors, transfusion	https://www.youtube.com/watch?v=aNaWzheZe0&t=3s
	Lymphatic system Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system	https://www.youtube.com/watch?v=b_vgp-NOiFU&t=3s https://www.youtube.com/watch?v=pFxWcXKd7w8&t=3s





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		https://www.youtube.com/watch?v=9fyxoYbRgMY&t=3s
IV	Peripheral nervous system	https://youtu.be/jVVIFFMIQhk
	Special senses Structure and functions of eye, ear, nose and tongue and their disorders.	https://youtu.be/AhnIQo-eb_c https://youtu.be/-Hz8zf4XB30
	Cardiac cycle.	https://youtu.be/sTWOpTeAF5c
Subject: Pharmaceutical Analysis Subject code: BP102T		
I	Pharmaceutical analysis Methods of expressing concentration	https://youtu.be/KthU8zXIftI https://youtu.be/qP_qM_kFw_g
	Errors	https://youtu.be/x2K533msN5M
	Pharmacopoeia, Sources of impurities in medicinal agents, limit tests.	https://youtu.be/tfyvAD4S7WU https://youtu.be/SHiFnIa9zVM https://youtu.be/OHvG_aFhA0Q
II	Acid base titration	https://youtu.be/NQ1PXLEgSIE
	Non aqueous titration	https://youtu.be/20xYemJB9z4
III	Precipitation titrations	https://youtu.be/73kUJqJPop8
	Complex metric titration	https://youtu.be/ve3lj1BdhNA
	Gravimetry	https://youtu.be/PvB5exsDO74
	Basic Principles, methods and application of diazotisation titration	https://youtu.be/yHo_ViXO1Bc https://youtu.be/_yIJsazRBFg
IV	Redox titrations	https://youtu.be/-8eXmxm3mn4
	Cerimetry	https://youtu.be/L2Iu_D7IIaM
	Permanganometry and bromatometry	https://youtu.be/7QL2Ur0Gos
	Iodimetry, Iodometry, Bromatometry, Dichrometry, Titration with potassium iodate	https://youtu.be/wnbkbJfejcE
V	Electrochemical methods of analysis Potentiometry	https://youtu.be/VL534mwbk6A
	Conductometer	https://youtu.be/Os-beSKiilkK https://youtu.be/bcYW5A72LIg





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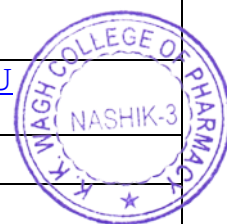
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Subject: Pharmaceutics- I		
Subject code: BP103T		
I	Historical background and development of profession of pharmacy	https://youtu.be/91XIF61-6pE
	Dosage forms	https://youtu.be/83at5A11Zd0
	Liquid dosage forms	https://youtu.be/p2We9h2VBP0
	Powders	https://youtu.be/aZ-eCvXUBOA
	Prescription	https://youtu.be/Dd3T7hvPWrc https://youtu.be/fgXjF5ZtuxE
II	Posology Pharmaceutical calculation	https://youtu.be/mO51mvGQBEU
	Pharmaceutical calculations	https://youtu.be/p2We9h2VBP0
	Powders	https://youtu.be/aZ-eCvXUBOA
III	Liquid dosage forms	https://youtu.be/p2We9h2VBP0
	Monophasic liquids	https://www.youtube.com/watch?v=QCvrnVgoj-0 https://youtu.be/11buwvni7YI
	Suspension	https://youtu.be/4Jj9uTjNZjc https://youtu.be/TRWUoaGLjxI
IV	Emulsions	https://youtu.be/L37AMzL7MCs https://youtu.be/AYcX9sAVpGI
	Suppositories	https://youtu.be/NipFVY4Nrh8
V	Pharmaceutical incompatibilities	https://youtu.be/tD2TrNIITG4
	Semisolid dosage forms	https://youtu.be/sff2r46K2Ko
	Preparation of semisolid dosage form	
	Excipients used in semi solid dosage forms.	https://www.youtube.com/watch?v=AfdhvKe7mhI
	Evaluation of semi solid dosages forms	
Subject: Pharmaceutical Inorganic Chemistry		
Subject code: BP104T		
I	Impurities in pharmaceutical substances	https://youtu.be/SHiFnIa9zVM
	Limit test	https://youtu.be/L1UwluU9Pjs https://youtu.be/NT4ifZvmIpI
	Pharmacopoeia	https://youtu.be/tfyvAD4S7WU
II	Acids, Bases and Buffers	https://youtu.be/zxD2BfPe9LE https://youtu.be/bTYPgegc4Zg https://youtu.be/-rAh1PISLhM





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	Major extra and intracellular electrolytes	https://youtu.be/jq8Tlss0yr0 https://youtu.be/3ON6Bov373Y
	Dental products	https://youtu.be/sOYbVF89X8I
III	Gastrointestinal agents	https://youtu.be/BdRsJuIKKf0
	Acidifiers:	
	Protective and Adsorbent	https://youtu.be/Oon8ALBabvs
	Antacid:	https://youtu.be/xFyB7farpuY
	Cathartics	https://youtu.be/KvRDeEDAh8
	Antimicrobials	
IV	Miscellaneous compounds	https://youtu.be/7UtPPvyHrVI
	Expectorants	
	Haematinics:	https://youtu.be/O4uoY13rquc
	Poison and Antidote:	https://youtu.be/DAr7ryEA0r4
	Astringents	https://youtu.be/7vaJF2L4Yqw
V	Radiopharmaceuticals	https://youtu.be/zvnH72OodIE
	Radio activity, Properties of α , β , γ radiations, Half-life, radio isotopes and study of radioisotopes	
	Applications of Radiopharmaceuticals	https://youtu.be/aLjo4NTYWR4
Unit	Chapter	YouTube Link
First year-SEM II		
Subject: Human Anatomy and Physiology-II		
Subject code: BP201T		
I	Nervous system	https://youtu.be/XYD9hWlZhBI
	Organization of nervous system	
	Central nervous system	https://youtu.be/fXHAawXa0go
II	Digestive system	https://youtu.be/dPJ587U8MKw
	Energetics	https://youtu.be/oLtFoeH2sUc
III	Respiratory system	https://youtu.be/drump30TcIw https://youtu.be/J1vv74X2Ybg https://youtu.be/QxrL8Z2q6MY
	Urinary system	https://youtu.be/kJYCJeRgaAM
IV	Endocrine system	https://youtu.be/YvhPiSBu76E
	Hormones	
	Endocrine Gland	https://youtu.be/u5JByysJyek
	Disorders of endocrine gland	https://youtu.be/Qwig6QlhK1k





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V	Reproductive system-Spermatogenesis	https://www.youtube.com/watch?v=YEcF0ffC8EI
	Male reproductive System	https://youtu.be/u5R4oHbYY8M
	Female reproductive System	https://youtu.be/B3Z9J1_N-Nk
	Introduction to genetics	https://youtu.be/YvoUZt0J-X8
Subject: Pharmaceutical Organic Chemistry - I Subject code: BP202T		
I	Structural Isomerism in Organic Compounds	https://youtu.be/LdjjwZ2zf5U
	Classification of Organic Compounds	https://youtu.be/Ig68qZnGt_8
	Common and IUPAC systems of nomenclature of organic compounds	https://youtu.be/iQS3eBqdGCK
II	Halogenation of alkane- Reaction and Mechanism	https://youtu.be/-8Q25ylhejA
	Hybridization	https://youtu.be/G3d9Uzod3bk
	Electrophilic Addition to alkene,	https://www.youtube.com/watch?v=Jk0EewRx5BA
III	SN1 and SN2 reactions - kinetics Alkyl Halide	https://youtu.be/ZxEnL4rodmo
	Alcohol	https://youtu.be/vCU85XTdkz8 https://youtu.be/JaAiHZ6g66A
IV	Aldehydes and ketones	https://youtu.be/rK8-WLIgSEw
	Aldol condensation, Crossed Aldol condensation, Cannizzaro reaction	https://youtu.be/SGTxxv0dmCs
V	Aliphatic amines* - Basicity, effect of substituent on Basicity. Qualitative test, Structure and uses of Ethanolamine, Ethylene diamine, Amphetamine	https://youtu.be/G8kN1zdyn18
	Carboxylic acid Acidity of carboxylic acids, effect of substituents on acidity, inductive effect and qualitative tests for carboxylic acids ,amide and ester	https://youtu.be/fJwZUXxyT3w





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Subject: Biochemistry Subject code: BP203T		
I	Carbohydrates	https://youtu.be/2r1ZIC4jEEI https://youtu.be/Y7doZLIm3MA https://youtu.be/QTfwJNWFSJM
	Lipids	https://youtu.be/V-ojzFbf0fA https://youtu.be/cqTFULQ3QrE
	Nucleic acids	https://youtu.be/oB6y70UqDn8
	Bioenergetics	https://youtu.be/h1tNIKubSZw
II	Carbohydrate metabolism- Glycolysis	https://youtu.be/DFPMBU9yNfI
	TCA cycle	https://youtu.be/0IRkOMoa4IE
	Glycogen metabolism	https://youtu.be/uuQIWA6FPM
	Biological oxidation ETC and oxidative phosphorylation	https://youtu.be/uAp9ST-h8wQ
III	Lipid metabolism β -Oxidation of saturated fatty acid (Palmitic acid)	https://youtu.be/yST4TCxNuCE
	Formation and utilization of ketone bodies; ketoacidosis	https://youtu.be/Hi8LboKBXXY
	Urea Cycle	https://youtu.be/sree4oyeQ2o
	Metabolism of phenylalanine and tyrosine	https://youtu.be/gNbvzUBGUBw
	Metabolic reactions of amino acid	https://youtu.be/yST4TCxNuCE
IV	Nucleic acid metabolism	https://youtu.be/mgZP_N-ov9A
	Biosynthesis of purine and pyrimidine nucleotides	https://youtu.be/LRhOSIPKkbI https://youtu.be/5avn9009jFM
	Structure of DNA and RNA and their functions	https://youtu.be/DYpqfchGPZE
	DNA replication	https://youtu.be/AimVNYu648g
	Transcription and translation	https://youtu.be/itXhs1sJSec
	Enzyme inhibitors with examples	https://youtu.be/qf0H4qD9F-U
	Coenzymes –Structure and biochemical functions	https://youtu.be/HeWb5-7W6Rs





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Subject: Pathophysiology Subject code: BP204T		
I	Basic principles of Cell injury and Adaptation	https://youtu.be/pb3Ddm5VWrM
	Apoptosis	https://youtu.be/dc1wgsjB9SU
	Basic mechanism involved in the process of inflammation and repair	https://youtu.be/mRQenKoe3PU
II	Cardiovascular System Hypertension	https://youtu.be/QdgarqLsvzg
	Respiratory system	https://youtu.be/vFVimTxLfVU
	Renal system	https://youtu.be/F_Q5Vsc8-6U
III	Haematological Diseases	https://youtu.be/p4od8ytFbCs https://www.youtube.com/watch?v=PBhlGi6ZRaA&t=10s
	Endocrine system	https://youtu.be/0dkaka58Peg https://www.youtube.com/watch?v=LPeKoKs9VV0&t=321s
	Nervous system	https://www.youtube.com/watch?v=avogC4717OY&t=9s https://www.youtube.com/watch?v=c8iBLchIbUo&t=8s
	Gastrointestinal system	https://www.youtube.com/watch?v=Y3w9_yohf3U&t=9s https://www.youtube.com/watch?v=aAID0keIZAE&t=10s
IV	Inflammatory bowel diseases, jaundice, hepatitis (A,B,C,D,E,F) alcoholic liver disease	https://youtu.be/LIFCwhk-hQw https://youtu.be/KGoLEshi4pQ
	Hepatitis	https://youtu.be/B9ZAAAtQzKDU
	Diseases of bones and joints Gout	https://youtu.be/aIU7l_taNLU https://youtu.be/PTz7H3I2N8s https://youtu.be/jxwLWXQNQbg
V	Infectious diseases Meningitis,	https://youtu.be/HsA-1wzTXc
	Tuberculosis	https://youtu.be/RMCtKzEpzjI





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	Leprosy,	https://youtu.be/hbWHwUnn8hk
	Typhoid,	https://youtu.be/j4nth5CD8Ao
	Urinary Tract Infection	https://www.youtube.com/watch?v=hbWHwUnn8hk
Subject: Computer Applications in Pharmacy		
Subject code: BP205T		
III	Computer applications in pharmacy	https://youtu.be/e0Y5XYHschw
IV	Bioinformatics	https://www.youtube.com/watch?v=VczYHB LbLVw
V	CDS & LIMS	https://youtu.be/TnFC7Zrjr3E
Subject: Environmental science		
Subject code: BP206T		
I	Natural Resources	https://youtu.be/b4KRaxE5PtI
II	Ecosystems	https://youtu.be/ClcB JY0CXA https://youtu.be/CuKM8JjhuGI
III	Environmental Pollution	https://youtu.be/Y-1boU204Pc

Second Year-SEM III& IV

Unit	Chapter	YouTube Link
Second Year-SEM III		
Subject: Pharmaceutical Organic Chemistry-II		
Subject code: BP301T		
I	Benzene & Aromaticity- Structure & Orbital picture	https://youtu.be/IYMBbOVCoHo
	Benzene & Aromaticity- Resonance & Aromaticity	https://youtu.be/mGPxibOQObo
	Benzene & Aromaticity- Electrophilic Aromatic Substn.	https://youtu.be/61HA6tAyi10
	Benzene & Aromaticity- Orientation of Substitution	https://youtu.be/1O-7Emji-ps
	Benzene & Aromaticity- Selected Benzene Derivatives	https://youtu.be/o_SOhchDm4o
II	Phenols	https://youtu.be/zWbkMgz1_r4
	Aromatic amine	https://youtu.be/Q70wqYC6wlY
	Acetyl value	https://youtu.be/qH9FZ-5In2c https://youtu.be/8b32CTXEKe0
	Iodine Value	https://youtu.be/2dYdgyWPIDo
	Saponification Value	https://youtu.be/sF5pZPZDkUE





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	Reichert Meissl (RM) value	https://youtu.be/DmsUcwbGbnQ
IV	Polycyclic Aromatic Hydrocarbons - Naphthalene	https://www.youtube.com/watch?v=2avsx_IBKtI&t=11.4s
	Polycyclic Aromatic Hydrocarbons - Anthracene	https://www.youtube.com/watch?v=dnMkRjqwy_0&t=2s
	Polycyclic Aromatic Hydrocarbons Phenanthrene	https://www.youtube.com/watch?v=W19fxpc3My4&t=2s
V	Cycloalkanes Cycloalkane- definition, preparation, Baeyer strain theory, Sachse Mohr's theory, reactions	https://youtu.be/z59JLDw0O-c
Subject: Physical pharmaceutics I Subject code: BP302T		
I	Solubility expression and solute solvent interaction	https://youtu.be/vN4X3i1zz0g
	Solvation and association	https://youtu.be/NC0RFxh5Oc4
	solubility of solid in liquid	https://youtu.be/d0T4Da7PHLM
	solubility of gases in liquid	https://youtu.be/WcrZZJfITrc
	Roult's law and its Deviation	https://youtu.be/pdNqA8HROqQ
	Distribution law applications and limitations	https://youtu.be/rMeAv0-WnzE https://youtu.be/Ryi03TS56xg
	Eutectic Mixture	https://youtu.be/Zjy0FQmLpHo
	Phase Rule and one component system	https://www.youtube.com/watch?v=vT1me3skGe0
II	States of Matter	https://youtu.be/TC3Z-pEBRQs
	gas laws and ideal gas equation	https://youtu.be/bE9ejHIIs6k
	Solid state chemistry	https://youtu.be/IrarE7kdr8
	Latent heat	https://youtu.be/N_jQjAnU_nA
	Optical activity	https://youtu.be/tOq9UmNiuVE
	Liquid complexes	https://youtu.be/GNR1nZTaNjQ
	Eutectic Mixture	https://youtu.be/Zjy0FQmLpHo
	Refractive index	https://youtu.be/l6j5OoknBi4
	Aerosol	https://youtu.be/ooH7MY0s75Q
	Dipole moment	https://youtu.be/kaWVMj9209U
III	Surface tension and interfacial tension	https://youtu.be/YtJfyzL2nm0
	surface free energy	https://youtu.be/okBVcdZrlu4
	spreading coefficient	https://youtu.be/5BJv2Erir_g
	Surfactants	https://youtu.be/wTvFA7RZWmU
	HLB scale	https://youtu.be/I-cQWlEdZzc
	Adsorption in liquids & solids	https://youtu.be/xGfMOETQLTA





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IV	Complexation	https://youtu.be/r5jMVfG6Ns
	Methods of analysis of complexes	https://youtu.be/wbLD-VDUmCY
	Protein binding	https://youtu.be/p4EsKvUrwoU
	Thermodynamic Treatment of Stability Constant	https://youtu.be/RGAWweZHjVQ
V	pH and Sorensen's pH scale	https://youtu.be/prtEYVx6r58
	Introduction to Buffers	https://youtu.be/_UktVyQYe4w
	Types of buffer, Buffer capacity and applications	https://youtu.be/eX2cSVGtkUw
	Buffered isotonic solutions	https://youtu.be/K46ZXuRDweU
Subject: Pharmaceutical Microbiology		
Subject code: BP303T		
I	Introduction, its branches, scope and its importance.	https://youtu.be/k5WhrFLTxOs
	History of microbiology	https://youtu.be/GXk_QUzLo1c
	Study of ultra-structure and morphological classification of bacteria	https://youtu.be/rvIqOgVU890
	Bacterial growth curve, isolation and preservation methods for pure cultures, cultivation of anaerobes, measurement of bacterial growth (total & viable count).	https://youtu.be/woA8xGUMfug
II	Identification of bacteria using staining techniques	https://youtu.be/TV5yeKeLQzo
	Biochemical tests (IMViC).	https://youtu.be/CteeJDFXwjY
III	Study of morphology, classification, reproduction/replication and cultivation of Fungi and Virus	https://youtu.be/XDpkwdJUjzw https://youtu.be/2lUC2NQbTsw
	Classification and mode of action of disinfectants	https://youtu.be/Nqd9KHeJn7M
IV	Aseptic area -Sources of Contamination in an aseptic area	https://youtu.be/8-7mRx9Ke1o
	Microbial assay	https://youtu.be/xhLeW4-vIKI
V	Types of spoilage, factors affecting the microbial spoilage of pharmaceutical products, sources and types of microbial contaminants, assessment of microbial contamination and spoilage	https://www.youtube.com/watch?v=TY9lWH4Yw7Q





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	Growth of animal cells in culture, general procedure for cell culture, Primary, established and transformed cell cultures	https://www.youtube.com/watch?v=WgLTe6C451c
Subject: Pharmaceutical Engineering Subject code: BP304T		
I	Flow of fluids -Types of manometers, Reynolds number and its significance,	https://youtu.be/C8KtJI7-Gz4
	Bernoulli's theorem and its applications, Energy losses,	https://youtu.be/59ns0yvxn_0
	Orifice meter, Venturimeter, Pitot tube and Rotometer.	https://youtu.be/baHXRA4Il0k
	Size Reduction laws of size reduction	https://youtu.be/XvzD0-lNtcY
	principles, construction, working, uses, merits and demerits of Hammer mill, ball mill, fluid energy mill, Edge runner mill & end runner mil	https://youtu.be/XIyFKGU7PGY
	Size Separation	https://youtu.be/P71XY265mdQ
	Principles, construction, working, uses, merits and demerits of Sieve shaker, cyclone separator, Air separator, Bag filter & elutriation tank.	https://youtu.be/GzPaaWl_cA4
II	Heat Transfer by conduction	https://youtu.be/jZQnV6O7y58
	Evaporation Objectives applications and factors influencing evaporation, principles, construction, working, uses, merits and demerits of Steam jacketed kettle, horizontal tube evaporator, climbing film evaporator, forced circulation evaporator, multiple effect evaporator	https://youtu.be/L5zyBx4dRmU
	Distillation: Basic Principles and methodology of simple distillation, flash distillation, fractional distillation, distillation under reduced pressure, steam distillation & molecular distillation	https://youtu.be/cENqk8gZKkc
III	Drying Objectives, applications & mechanism of drying process, measurements & applications of Equilibrium Moisture content,	https://youtu.be/NQDAKE6r-do
	Rate of drying curve	https://youtu.be/XlZEyG_Rlrs
	principles, construction, working, uses, merits and demerits of Tray dryer, drum	https://youtu.be/XJaFScJErQA





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	dryer spray dryer, fluidized bed dryer, vacuum dryer, freeze dryer.	
	Introduction to Mixing	https://youtu.be/FV84jdvL0Vg
	Mechanism of solid mixing	https://youtu.be/xi7lDiAK2Kc
	Liquid mixing	https://youtu.be/sh0i2ZZ-lHU
	semisolids mixing	https://youtu.be/qTMH4J5auRk
IV	Filtration-Introduction to filtration	https://youtu.be/-MoiNiQdVSM
	filter aids	https://youtu.be/Ggye0OhpKGU
V	Materials of pharmaceutical plant construction	https://youtu.be/ToPE-LIo7Xg
Unit	Chapter	YouTube Link
Second Year-SEM IV		
Subject: Pharmaceutical Organic Chemistry-III		
Subject code: BP401T		
I	Stereo isomerism -Optical activity, enantiomerism, diastereoisomerism, meso compounds	https://youtu.be/eXdnfEPd0qQ
	Elements of symmetry, chiral and achiral molecules DL system of nomenclature of optical isomers, sequence rules, RS system of nomenclature of optical isomers	https://youtu.be/dKroEXEDWP8
	Asymmetric synthesis	https://youtu.be/0Hwz_nkvMnk
II	Geometrical isomerism Nomenclature of geometrical isomers (Cis Trans, EZ, Syn Anti systems) Methods of determination of configuration of geometrical isomers. Conformational isomerism in Ethane, n-Butane and Cyclohexane.	https://youtu.be/D235r1ckZy4
III	Introduction to Heterocyclic Compounds	https://youtu.be/Iaz24CaaOmo
	Nomenclature and classification Synthesis, reactions and medicinal uses of following compounds/derivatives Pyrrole, Furan, and Thiophene Relative aromaticity and reactivity of Pyrrole, Furan and Thiophene	https://youtu.be/rFt93scEfr0 https://youtu.be/OmjwGcQecZA
IV	Heterocyclic compounds-II	https://www.youtube.com/watch?v=YvV21Bc-Fj0
	Hetero cyclic compounds-Oxazole	
	Hetero cyclic compounds Pyrazole	https://youtu.be/J9pTO85_laA https://youtu.be/FJH5GXpDrOs





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	Imidazole- Structure, Synthesis, Reaction and Medicinal importance	https://youtu.be/4flCAAb0Py0
	Pyridine- Structure, Basicity, Synthesis, Reactions and Medicinal importance	https://youtu.be/n98YRAJWRpY
V	Reactions of synthetic importance	https://youtu.be/g9po3kRAFrS https://youtu.be/Ys25fqxB5E4
Subject: Medicinal Chemistry I Subject code: BP402T		
I	History and development of medicinal chemistry	https://youtu.be/L9k_ZCFmrk8
	Physicochemical properties and drug metabolism	https://youtu.be/08MmHOrOF1o
	Optical and Geometrical isomerism and Phase-I	https://youtu.be/qq5NzHeTPio
	Phase II metabolism	https://youtu.be/IDwaxP1C9js
II	Adrenergic Neurotransmitters: Biosynthesis and catabolism of catecholamine. Adrenergic receptors (Alpha & Beta) and their distribution	https://youtu.be/vumvkDU5kJ0
	Sympathomimetic agents: SAR of Sympathomimetic agents	https://youtu.be/wbH3mEDLi8M
III	Anticholinergic agents	https://youtu.be/CWNLixiAAY0
	Indirectly acting cholinergic agents	https://youtu.be/kDXBOYh8Abo
IV	Sedatives and Hypnotics-Benzodiazepines Barbiturtes	https://youtu.be/_Z2IGf3ByT4 https://youtu.be/hN-AwHE_s0M https://youtu.be/ntLWsVdLY0s
	Anticonvulsants- Barbiturates, Hydantoin, Oxazolidine diones, Urea and Monoacylureas, Benzodiazepines, Miscellaneous	https://youtu.be/mrDftJ-qJIs https://youtu.be/Gq1G5h8IhtY
V	Anti-inflammatory agents	https://youtu.be/rgApHM8G9bs
Subject: Physical Pharmaceutics-II Subject code: BP403T		
I	Colloidal dispersions-Classification of dispersed systems & their general characteristics, size & shapes of colloidal particles	https://youtu.be/pex5sdSBzA8
	Optical, kinetic & electrical properties of colloids	https://youtu.be/Htt204TrMeI





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	Stability of Colloids-Effect of electrolytes, coacervation, peptization & protective action.	https://youtu.be/JLyIo19Jj1A
II	Rheology-Newtonian systems, law of flow, kinematic viscosity, effect of temperature, non-Newtonian systems, pseudoplastic, dilatant, plastic, thixotropy, thixotropy in formulation,	https://youtu.be/17gTSs4lnFw
	Determination of viscosity, capillary, falling Sphere, rotational viscometers	https://youtu.be/B5jXD8aWB6w
III	Coarse dispersion Suspension, interfacial properties of suspended particles, settling in suspensions,	https://youtu.be/JBYk4Z6ti0k
	Formulation of flocculated and deflocculated suspensions	https://youtu.be/wklkYtYkako
	Stability of suspension	https://youtu.be/VRj-i2M3_LM
	Emulsions and theories of emulsification	https://youtu.be/hWUaWZ_26wM
	Microemulsion and multiple emulsions;	https://youtu.be/17d0qzKrynE https://youtu.be/uLtkIMKXoXs
	Physical stability of emulsion- Stability of emulsions, preservation of emulsions, rheological properties of emulsions and emulsion formulation by HLB method.	https://youtu.be/cWP9ObM80OE
IV	Micromeritics- Particle size and distribution, mean particle size, number and weight distribution, particle number, methods for determining particle size by different methods, counting and separation method,	https://youtu.be/rFFdBpIth64
	Derived properties of powders, porosity, packing arrangement, densities, bulkiness	https://youtu.be/hvOQgpzUaQA
	Flow properties of powder	https://youtu.be/uh_cHGZYURc
V	Drug stability-Reaction kinetics: zero, pseudo-zero, first & second order, units of basic rate constants, determination of reaction order.	https://youtu.be/RaFiJ32UaGg
	Physical and chemical factors influencing the chemical degradation of pharmaceutical product: temperature, solvent, ionic	https://youtu.be/UruxU6ru9aM





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	strength, dielectric constant, specific & general acid base catalysis	
	Stabilization of medicinal agents against common reactions like hydrolysis & oxidation.	https://youtu.be/m-lUkLyW6c8
Subject: Pharmacology-I Subject code: BP404T		
I	General Pharmacology-Definition, historical landmarks and scope of pharmacology, nature and source of drugs	https://www.youtube.com/watch?v=AS5V2EP3hKk
	Routes of drug administration	https://www.youtube.com/watch?v=GoLi5p6fZ9U
III	Pharmacology of drugs acting on PNS- Organization and function of ANS. Neurohumoral transmission, co-transmission and classification of neurotransmitters	https://www.youtube.com/watch?v=oOtyQN2NI78&t=164s
	Parasympathomimetics	https://www.youtube.com/watch?v=ZaNQhs3L3GI&t=16s
	Drugs affecting on Ganglion	https://www.youtube.com/watch?v=1yVxImAj9p4&t=1s
	Parasympatholytics	https://www.youtube.com/watch?v=mPR9oPeQ4cc&t=54s
IV	Pharmacology of drugs acting on central nervous system- Neurohumoral transmission in the C.N.S. special emphasis on importance of various neurotransmitters like with GABA, Glutamate, Glycine, serotonin, dopamine	https://www.youtube.com/watch?v=i-kncbHP3-c&t=3s
	General anesthetics	https://www.youtube.com/watch?v=r_sOvS1ScNg&t=3s
	Pre-anesthetics	https://www.youtube.com/watch?v=6F-XRRV-Va4&t=65s
V	Psychopharmacological agents-anti-anxiety agents,	https://www.youtube.com/watch?v=gtvhjB37www&t=60s
	Antidepressants	https://www.youtube.com/watch?v=3GSnl77VYXI&t=2s
	Drugs to treat Bipolar disorders	https://www.youtube.com/watch?v=oDh9iZeSWd4&t=43s





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	Antipsychotics	https://www.youtube.com/watch?v=cLTMGzvEktQ&t=551s
Subject: Pharmacognosy and Photochemistry-I Subject code: BP405T		
I	Introduction to Pharmacognosy	https://youtu.be/DdHy_ojPLrQ
	Classification of drugs	https://youtu.be/dg_MZAbbcpw
	Sources of Drugs	https://youtu.be/xL1OkVnzkiU
	Quality control of Drugs of Natural Origin	https://youtu.be/dVnJl4K9bvE
II	Cultivation, Collection, Processing and storage of drugs of natural origin	https://youtu.be/DUjqB9GQzH4
III	Plant tissue culture-Historical development of plant tissue culture, types of cultures	https://youtu.be/97VFcLJ8dbo
	Nutritional requirements, growth and their maintenance.	https://youtu.be/rRv6voFLzyg https://youtu.be/bXF_bjjsUEQ
IV	Pharmacognosy in various systems of medicine-Homeopathy Medicine	https://youtu.be/1qByd_GUa8I
	Ayurveda	https://youtu.be/gSwTJsn9jHw
	Role of pharmacognosy in traditional systems of medicines	https://youtu.be/YscPjL4NvHk
	Introduction to secondary metabolites-Glycosides	https://youtu.be/qe4uMXqCaUs
	Alkaloids	https://youtu.be/szP-B6tFABM
	Volatile Oils & Resins and Resins Combinations	https://youtu.be/b-BLRsT1l0g
V	Tannins,	https://youtu.be/mH-3LqmvQgw
	Plant Products: Fibers - Cotton, Jute, Hemp	https://youtu.be/MuTbDhrc13g
	Proteins and Enzymes : Gelatin, casein, proteolytic enzymes (Papain, bromelain, serratiopeptidase, urokinase, streptokinase, pepsin).	https://youtu.be/2hI4GCVAa7s
	Natural allergens Hallucinogens, Teratogens	https://youtu.be/_TaZtmP-kC8
	Primary metabolites: Carbohydrates: Acacia, Agar, Tragacanth, Honey	https://youtu.be/1V8jZ6-B9x4





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	Lipids(Waxes, fats, fixed oils) : Castor oil, Chaulmoogra oil, Wool Fat, Bees Wax	https://youtu.be/j0J0RVFEVI8
	Marine Drugs: Novel medicinal agents from marine sources	https://youtu.be/CGx4oxFKr7E

Third Year SEM V		
Unit	Chapter	YouTube Link
Subject: Medicinal Chemistry-II		Subject code: BP501T
I	Antihistaminic agent	https://youtu.be/Z-KJIRoiRt8
	H1-antagonists:	https://youtu.be/4Zn3KfTNak4
	H2-antagonists	https://youtu.be/zOBVQJtK1CE
	Gastric Proton pump inhibitors	https://youtu.be/4XAO1E60nwE
II	Anti-anginal: Vasodilators	https://youtu.be/vuuCtIpbBMo
	Calcium channel blockers	https://youtu.be/RBPcdF5MXS0
	Diuretics: Carbonic anhydrase inhibitors, Thiazides, Loop diuretics	https://youtu.be/htlG8stwRlc https://youtu.be/4zsc3IG5bys https://youtu.be/BK5pXkFI0IM https://youtu.be/AekP4YT4GWs https://youtu.be/J5-6TBTIDqk https://youtu.be/D9QmfILv8Gs
	Anti-hypertensive Agents	https://youtu.be/sipVFHssv5M
	Drugs acting on Endocrine system: ACE Inhibitors	https://youtu.be/agfgtRk9w9M
	Sex hormones,	https://youtu.be/N4cSkU6fRPM
IV	Drugs for erectile dysfunction	https://youtu.be/i7lZHahfX0w
	Oral contraceptives	https://youtu.be/yu0IMOsU5U0
	Thyroid and antithyroid drugs.	https://youtu.be/0wOBdTWD69U
	Local Anesthetics: Definition, mechanism of action, structure activity relationship, classification, study of drug-Procaïne, Benzocaine, Dibucaine	https://youtu.be/9rASaxRQJlc
Subject: Industrial Pharmacy I- Theory		
Subject code: BP502T		
I	Preformulation -Objective and Goal	https://youtu.be/uNKfXWyVAQM





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	a. Physical properties: particle size, shape	https://youtu.be/s08jhbzfZ1eQ https://youtu.be/smF0aSEDNTg https://youtu.be/Qn8B5k8NyXk
	Flow properties	https://youtu.be/_0CWPcuZxRA
	Solubility profile Ionization constant	https://youtu.be/eQwQrSlpACYy4 https://youtu.be/bcCMNFYOhjg
	b. Chemical properties	https://youtu.be/_yQGQuEQkzk
II	Tablet Introduction	https://youtu.be/vZhCzUwLAJw
	Formulation of tablets	https://youtu.be/bKBN0Nncj00
	Tablet Compression equipment and tooling	https://youtu.be/prwwLFCkMb0
	Tablet Coating	https://youtu.be/22eN56LDLpg
III	Capsules:	https://youtu.be/TbUT-svxFdk
	a. Hard gelatin capsules: filling	https://youtu.be/gTsrug2YJo
	b. Soft gelatin capsules	https://youtu.be/UjXWtf3AkxQ
	Evaluation of Capsules	https://youtu.be/fOgGrp-BWPc
IV	Parenteral preparation introduction	https://youtu.be/gmj9SU9T3QY
	Large Volume Parenterals	https://youtu.be/pkZOfF8UqiI
	Parenteral Production procedure	https://youtu.be/wS7A23HU240
	Ophthalmic formulations	https://youtu.be/waeg4u8FCQ4
V	Legal and official requirements of containers Packaging material Science container and closures	https://youtu.be/0IHKiHjuK_Q https://youtu.be/0qcBfqo9IPg
	Quality control test for Packaging materials	https://youtu.be/yUtLkeI1SV8
	Pharmaceutical Aerosols	https://youtu.be/HVwQoqxky8c
	Cosmetics: Lipstick	https://youtu.be/165anFJtkKo
Subject- Pharmavology –III Subject code: BP503T		
	Electrophysiology of heart	https://youtu.be/4PdBZOiNsUQ https://youtu.be/YX7nIPF3LRM https://youtu.be/uzz0Rv_qUaY
	Drugs used in congestive heart failure	https://youtu.be/P40G_kgJaVI https://youtu.be/t-7o8atPYJs https://youtu.be/CwaJmcQpb84
	Anti-hypertensive drugs	https://youtu.be/UO08LSVeB2U https://youtu.be/jrFP9lmQHyl https://youtu.be/KkrbRSiwUS0





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		https://youtu.be/Piq7bN0HLKY
	Anti-anginal drugs.	https://youtu.be/RfuwUT4Y08w https://youtu.be/IcE0yRdx2lc
	Anti-arrhythmic drugs	https://youtu.be/vQ1DaDVPWmA https://youtu.be/CHNHfqQAU0k https://youtu.be/28d_v7yZ6jg https://youtu.be/-MlM7xZKPkS
	Anti-hyperlipidemic drugs.	https://youtu.be/rGiGTz4cEmQ https://youtu.be/DiH7rW0psYU https://youtu.be/FayoHFLTB2E https://youtu.be/66IDjdexO98
II	Pharmacology of drugs acting on cardio vascular system	https://youtu.be/jNHGhB-maul https://youtu.be/3csRWWEw1cw
	a. Drug used in the therapy of shock	
	b. Hematinics	https://youtu.be/WPVVbxTE89c https://youtu.be/jUsCODgANTQ https://youtu.be/FMfjYPAmdfc
	c. anti-platelet drugs Coagulants, Anticoagulants, Fibrinolytics	https://youtu.be/E1lPmsrkk6E https://youtu.be/C_dpvVsFwak https://youtu.be/KujD6-dcbD4
	d. Plasma volume expanders	https://youtu.be/ugaHW7mnuWU
	Pharmacology of drugs acting on urinary system a. Diuretics	https://youtu.be/QqdF2bHCGiY https://www.youtube.com/watch?v=wn-4YBKK8-U https://www.youtube.com/watch?v=eZQsZyRH-DE https://www.youtube.com/watch?v=A5OOvJNCleU https://www.youtube.com/watch?v=gQW6esUSEz8 https://www.youtube.com/watch?v=qZz9qvnd5zk
	b. Anti-diuretics	https://www.youtube.com/watch?v=8SsoSTeVAGk
	Autocoids and related drugs	https://youtu.be/gzTDQOOZlsU
	b. Histamine, 5-HT and their antagonists.	https://youtu.be/BKyJy-ac50Y https://www.youtube.com/watch?v=NmSORg5CK6Y





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	c. Thyroid hormones- analogues and their inhibitors.	https://youtu.be/q6ownG1G-00
	d. Hormones regulating plasma calcium level- Parathormone, Calcitonin and Vitamin-D	https://www.youtube.com/watch?v=GrPd_hAi_qUA&list=UUmRz2CAK-k1Gl3aQl_OZaZg
	Estrogens, progesterone and oral contraceptives.	https://www.youtube.com/watch?v=cGMKt7csJJ4
	Bioassay	https://www.youtube.com/watch?v=ZVX_JHE4o4g
Subject: Pharmacognosy II – Theory Subject code: BP504T		
I	Metabolic pathways in higher plants and their determination	https://youtu.be/FO43xv4bsAo
	Study of utilization of radioactive isotopes in the investigation of Biogenetic studies.	https://youtu.be/KzLPFe2u-LU
II	Alkaloids	https://youtu.be/1c9p8uf1_pk https://youtu.be/QA-d6FtBeRY
	Phenylpropanoids and Flavonoids	https://youtu.be/E8woOTUGPX4
	Volatile oils	https://youtu.be/AP4hQyLaDJE
	Tannins	https://youtu.be/3xd2gxWjf9I
	Iridoids, Other terpenoids & Naphthaquinones	https://youtu.be/0WNi17RB0a4
III	Isolation, Identification and Analysis of Phytoconstituents:	https://youtu.be/Z2kmuuhZNCQ
	a) Terpenoids-Menthol, Citral, Artemisin	
	b) Glycosides Glycyrrhetic acid & Rutin	https://youtu.be/sFvd699dfww
	c) Alkaloids Atropine, Quinine, Reserpine, Caffeine	
	d) Resins-Podophyllotoxin, Curcumin	https://youtu.be/1BsxFQ7NZy0
IV	Industrial production, estimation and utilization of the following phytoconstituents: Forskolin, Sennoside, Artemisinin, Diosgenin, Digoxin, Atropine,	https://youtu.be/JsRRAabTQkk
	Industrial production, estimation and utilization of the following Podophyllotoxin, Caffeine, Taxol, Vincristine and Vinblastine	https://youtu.be/KY-H7zRZ-PY





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V	Basics of Phytochemistry Modern methods of extraction,	https://www.youtube.com/watch?v=IX_N7OK2EGo
	Super critical fluid extraction	https://youtu.be/ENIsG0Awc1o
Subject: Pharmaceutical Jurisprudence		
Subject code: BP505T		
	Legal definitions of schedules to the Act and Rules	https://youtu.be/BYt12IhDAyU
	Import of drugs	https://youtu.be/Od9dfEwGdco
	Administration of the Act and Rules – Drugs Technical Advisory Board, Central drugs Laboratory, Drugs Consultative Committee, Government drug analysts, Licensing authorities, controlling authorities, Drugs Inspectors	https://youtu.be/VvfMsDj-ydw
III	Pharmacy Act –1948	https://youtu.be/DfAyQnUmncK
	Narcotic Drugs and Psychotropic Substances Act-1985 and Rules	https://youtu.be/CvytS92zCWU
IV	Study of Salient Features of Drugs and Magic Remedies Act and its Rules	https://youtu.be/Uawi4B34ohc
V	Pharmaceutical Legislations,	https://youtu.be/fqyElvpdyV0
	Code of Pharmaceutical ethics,	https://youtu.be/WHUDGMWascM
Unit	Chapter	YouTube Link
Third Year SEM VI		
Subject: Medicinal Chemistry-III Subject code: BP601T		
II	Antibiotics: Macrolide	https://youtu.be/f8Mork_nB_c
	Miscellaneous	https://youtu.be/ElqPiy8Bmpk
	Antimalarials: Quinolines, Biguanides & dihydrotriazines, Miscellaneous	https://www.youtube.com/watch?v=_6m5Yw78rQs&t=829s
III	Anti-tubercular Agents: Synthetic anti tubercular agents	https://www.youtube.com/watch?v=LIAIvYIZoT4
	Urinary tract anti-infective agents: Part I	https://youtu.be/LpYlXrL1C_0





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	Urinary tract anti-infective agents: Part II	https://youtu.be/A3zDqGyIIIc
	Miscellaneous	https://youtu.be/aZ8YHQbfD0Y
	Sulphonamides and Sulfones: Part I	https://youtu.be/3Leu-vTqg2c
	Sulphonamides and Sulfones: Part II	https://youtu.be/PVDE7xxpoyk
	Folate reductase inhibitors Dapsone	https://youtu.be/fbA7gXM6Ohk
V	Introduction to Drug Design: QSAR	https://youtu.be/8v7ht0RwWrA
	Approaches to drug design: Part I	https://youtu.be/NXIYYjmJ8p8
	Fibonacci in drug design	https://youtu.be/kywOT8-uXks
	3D-QSAR	https://youtu.be/9wOUAzTXeZo
	Pharmacophore modeling and docking techniques	https://youtu.be/A55vEBdXfeQ
Subject: Pharmacology-III Subject code: 602T		
	e. Respiratory stimulants	https://youtu.be/95Wo83TaeBk
	b. Drugs for constipation and diarrhoea.	https://youtu.be/8QglpzYO--0
	b. Sulfonamides and cotrimoxazole.	https://youtu.be/JDwQtILhKxI
III	a. Antitubercular agents	https://youtu.be/HUz9Nz6gc4k
	e. Anthelmintics	https://youtu.be/8Zy1E6YSRZ8
	g. Antiamoebic agents	https://youtu.be/T2fLgFyqM6E
	Sexually transmitted diseases.	https://youtu.be/FJ6Le8p2nFc
	Chemotherapy of malignancy.	https://youtu.be/tF17p8F0Ces
	Immunosuppressant: monoclonal antibodies	https://youtu.be/_Ayl83xCens
V	Definition and basic knowledge of acute, subacute and chronic toxicity.	https://youtu.be/znWwj5IjZPs
	Chronopharmacology	https://youtu.be/aanPFRtQHF4
Subject: Herbal Drug Technology Subject code: BP603T		
I	Herbs as raw material	https://youtu.be/IWsatjY1m5k
	Biodynamic agriculture	https://youtu.be/eGEZloOwVVI
	Indian System of Medicine	https://youtu.be/Bep903psQXs





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	b. Herbal – Drug and Herb – Food Interactions	https://youtu.be/chOynBh0wjI
III	Herbal Cosmetics	https://youtu.be/qn3EkyC5oN8
	Herbal Excipients	https://youtu.be/lDcvaE-cJTo
	Herbal Formulations	https://youtu.be/nERi9irlQmM https://youtu.be/Y1k6XeDCxIk
IV	Evaluation of drugs	https://youtu.be/gB7rG9ypUhk2
	Patenting and Regulatory Requirements of natural products	https://youtu.be/dMQ4tjYl8Mc
V	General Introduction to herbal Industry. Herbal drugs industry: Present scope and future prospects.	https://youtu.be/tgAEL3K2gPA
Subject: Biopharmaceutics and Pharmacokinetics Subject code: BP604T		
I	Absorption; Mechanisms of drug absorption through GIT,	https://youtu.be/VYZG2qJZfCo
	Factors influencing drug absorption through GIT	https://youtu.be/5X4ojBe3XDE
	Absorption of drug from Non per oral extra-vascular routes,	https://youtu.be/zKPv -AP0SM
II	Elimination: Drug metabolism and basic understanding metabolic pathways renal excretion of drugs	https://youtu.be/pbe6iWBrSBM https://youtu.be/JPPVpR-38q8
	factors affecting renal excretion of drugs	https://youtu.be/Gd4NJD_WyYU
	Extrahepatic metabolism	https://youtu.be/ZA9l0aX3lJo
	Excretion of drugs, factors affecting renal excretion of drugs, renal clearance,	https://youtu.be/nzegXi169bQ
	Bioavailability and Bioequivalence	https://youtu.be/ihkr6juOnrA
III	Pharmacokinetics: Definition and introduction to Pharmacokinetics, Compartment models, Non compartment models, physiological models,	https://youtu.be/Srp5Go1m5Oo
	One compartment open model. (a). Intravenous Injection (Bolus) (b). Intravenous infusion and (c) Extra Vascular administrations. Pharmacokinetics parameters - KE , $t_{1/2}$, V_d , AUC , K_a , Cl_t and CLR -	https://youtu.be/QUxDNBEjLZY





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	definitions methods of eliminations, understanding of their significance and application	
IV	Multicompartment models Kinetics of multiple dosing, calculation of loading and maintenance doses and their significance	https://youtu.be/lbSdKcNTNGc
	steady state drug levels,	https://youtu.be/mLY-IqFcGOW
	Two compartment open model. IV bolus	https://youtu.be/HbpEurpp6cQ
V	Nonlinear Pharmacokinetics: Introduction, Factors causing Non-linearity. Michaelis-menton method of estimating parameters, Explanation with example of drugs.	https://youtu.be/vTEqE0HSsvc
Subject: Pharmaceutical Biotechnology Subject code: BP605T		
I	Enzyme Biotechnology	https://youtu.be/VXxLQ4ObPfe
	Biosensors	https://youtu.be/SRtYUVYx4Mc
	Protein Engineering	https://youtu.be/usRu9XvGF-k
	Use of microbes in Industries	https://youtu.be/EeKcbw2kBa0
	Enzyme immobilization	https://youtu.be/qAzpYOJi-SE
	Introduction and Principles of Biotechnology	https://youtu.be/SmM8-DCshe
	Production of enzyme	https://youtu.be/64VuaLoSkTg
	Enzyme Peroxidase Production	https://youtu.be/ZQ_LDnL3fIU
II	DNA ligase	https://youtu.be/TMiV3q-GrHg
	Restriction endonucleases	https://youtu.be/97-imPMI6XY
	cloning vector	https://youtu.be/bWBSF9WWfGw
	PCR	https://youtu.be/u_5U6C2SSW
	Insulin production	https://youtu.be/xzDbPNrvKLk
	Interferon production	https://youtu.be/_F3UDW8_yXw
	Hepatitis B vaccine production	https://youtu.be/ICH9Du2RJIE
	R-DNA Technology	https://youtu.be/vbOw29IKoEU
III	Introduction to Immunity	https://youtu.be/aVjlQpWZ_S4
	Immuno-stimulation and immunosuppression	https://youtu.be/1COFM2yB-HM
	Vaccine production	https://youtu.be/NdAq-gDOALI
	Blood product and plasma substitute	https://youtu.be/kQdACZr8uTI
	Structure and function of immunoglobulin	https://youtu.be/ScqZZLGxh94
	Major Histo-compatibility Complex	https://youtu.be/WCA4opqyhDg





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	Hypersensitivity	https://youtu.be/qJLRUEQor4Y
IV	Blotting techniques	https://youtu.be/jyGzINO2O0o
	Genetic organization of Prokaryotes and Eukaryotes	https://youtu.be/gm2DeEQYoZQ
	Microbial genetics	https://youtu.be/F_7cgPE_-ZE
	Plasmid	https://youtu.be/SxavE-umXQY
	Trasposons	https://youtu.be/tT8Kc03XuUQ
	Mutation	https://youtu.be/SCKa3G2tHQM
V	Glutamic Acid Production	https://youtu.be/DVfvCJyYpR4
	Penicillinase Production	https://youtu.be/YdMTVxY6bAk
	Fermentation	https://youtu.be/KZ8s4mZagxw
	Nutrient Medium and sterilization	https://youtu.be/UJqJFKDZoZY
	Griseofulvin Production	https://youtu.be/oIHObinOg3cn
	Citric Acid production	https://youtu.be/iCeEAm33Opo
	Vitamin B12 Production	https://youtu.be/KeQBDQYsXgM-
	Large scale fermenter designs	https://youtu.be/eiV4nqgFT14
Subject: Pharmaceutical Quality Assurance		
Subject code: BP606T		
I	Concept of QA, QC	https://youtu.be/R9bHiMptm08
	TQM	https://www.youtube.com/watch?v=Q7TbKndj-ok&t=5s
II	Organization and personnel: Personnel responsibilities, training, hygiene and personal records.	https://youtu.be/zhGnhteLft4
III	Quality Control: Quality control test for containers, rubber closures and secondary packing materials.	https://youtu.be/evM-mbNhfZs https://youtu.be/BsJqCES-vhk
	Good Laboratory Practices: General Provisions, Organization and Personnel, Facilities, Equipment, Testing Facilities Operation, Test and Control Articles, Protocol for Conduct of a Nonclinical Laboratory Study, Records and Reports, Disqualification of Testing Facilities	https://youtu.be/VmpXuYCy1r4
	Document maintenance in pharmaceutical industry: Batch Formula Record, Master Formula	https://youtu.be/Fh7EEfAqsHg





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	Record	
	Quality audit	https://youtu.be/ehvpKNWWTzQ
V	Introduction to validation and calibration	https://youtu.be/WyxKNt5HpQg

Final Year SEM VII		
Unit	Chapter	YouTube Link
Subject: Instrumental Methods of Analysis Subject code: BP701T		
I	UV visible spectroscopy: Instrumentation	https://youtu.be/Eao0zKz1KbA
	Electronic transitions and shifts in absorption spectra	https://youtu.be/BpfyOyZbBJE
	Basic concepts in UV visible spectroscopy	https://www.youtube.com/watch?v=HevzKz8m8ac&t=123s
	Beer's Lambert's Law	https://youtu.be/TLQLD3ILGYY
	Types of molecular spectroscopy Applications of UV Visible Spectrophotometer	https://lumen5.com/user/pdahire/application-s-of-uv-v-lgcpe/
	Fluorimetry	https://youtu.be/kVDIkUIPQEG
II	IR Spectroscopy-Theory Introduction, fundamental modes of vibrations in poly atomic molecules, sample handling, factors affecting vibrations	https://youtu.be/cjpY4fVU_g
	Flame Photometry-Principle	https://youtu.be/l5kbZbIMgN0
	Flame Photometry-instrumentation and applications	https://youtu.be/o2hh4EU_F-k
	Atomic Absorption Spectroscopy-Principle	https://youtu.be/cHWALYViQDQ
	Atomic Absorption Spectroscopy instrumentation and applications	https://youtu.be/yu105pITJAM





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	sample preparation, operation, types of instruments, applications, advantages and limitations of AAS	https://youtu.be/Fkx_wdBF9-w
	NepheloTurbidometry	https://youtu.be/8PfFNyx9pMA
III	Introduction to Adsorption chromatography	https://youtu.be/DUnlUeYF0mA
	Adsorption column chromatography- adsorbents, mobile phase and packing of	https://youtu.be/7eriXC_UIEU
	Thin layer chromatography	https://youtu.be/MVJYGJh4T5I
	Paper chromatography	https://youtu.be/vaknxFqn9YI
	Electrophoresis	https://youtu.be/bXrq4ZaGJFQ
IV	Gas chromatography	https://youtu.be/xjv6ZXEskZ4
	High performance liquid chromatography	https://youtu.be/pNv1604YDTQ https://youtu.be/9y7ju5KV84k https://youtu.be/eb-AcrKKht8
V	Ion exchange chromatography	https://youtu.be/dfMK0hz-rVo
	Gel chromatography-	https://youtu.be/ZAK8U89zlwK https://youtu.be/OCPhNa9wt_8 https://youtu.be/ZTGc6XX4WqM
Subject: Industrial Pharmacy II– Theory Subject code: BP702 T		
I	Pilot plant scale up technique	https://youtu.be/M_Je6JVUnQ8
	Scale up of liquid orals and semisolid dosage forms	https://youtu.be/kEQ7oK00Ht4
	Introduction to SUPAC	https://youtu.be/V_5eDmvJNUE
	SUPAC guidelines detail description	https://youtu.be/QpguhiC7SA0
	Scale up of solid orals and semisolid dosage forms	https://youtu.be/tIYbeqzMbRY
	SUPAC-IR guidelines detail description	https://youtu.be/uj81Mi0lLgQ
	SUPAC-MR guidelines detail description	https://youtu.be/N_A_x3HvIOk
	SUPAC-SS guidelines detail description	https://youtu.be/BRavCKZ9JXc
II	Technology transfer	https://youtu.be/O4_4IwegDag
	Quality risk management	https://youtu.be/E3RT_BBg5oc
III	Drug discovery teams	https://youtu.be/JGzN-Scr4TE
	Non clinical development	https://youtu.be/x9y_ryX0Qt0





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	Investigators brochures	https://youtu.be/swNez9kHl9w
	New Drug Application	https://youtu.be/dBS7SsDInjo
	BE studies	https://youtu.be/Ixhf4iKA4EQ
	Regulatory affairs	https://youtu.be/SqdZepkl198
IV	NABL	https://youtu.be/F3MUOjTv3Ro
	QBD	https://youtu.be/KXps4b_G9C4
	Total Quality Management	https://youtu.be/eocv18i1h3g
V	COPPS	https://youtu.be/xNA0VGyekoc
	CDSCO	https://youtu.be/LOKESolHuws
	Regulatory requirements and approval procedures for New Drugs.	https://youtu.be/dBS7SsDInjo
Subject: PHARMACY PRACTICE Subject code: BP703T		
I	Adverse drug reaction	https://www.youtube.com/watch?v=OjS80CFKe04
	Hospital and its organization	https://youtu.be/ms24JAcRHIA
	Therapeutic drug monitoring	https://youtu.be/eTw848QeUiA
	Medication adherence	https://youtu.be/8C_yT0eOXew
III	Pharmacy and therapeutic committee	https://youtu.be/KxrVsTORCJk
	information services	https://youtu.be/nF5VefrUda4
	counseling	https://youtu.be/EdHFn5dToUQ
	Clinical Pharmacy	https://youtu.be/98smE0O7s0c
	Over the counter (OTC) sales	https://youtu.be/qVfPyth1RKw
V	Drug store management and inventory control	https://youtu.be/jT-Y-eaP-G8
	Investigational use of drugs	https://youtu.be/BhCHh2-sL9Y





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Subject: NOVEL DRUG DELIVERY SYSTEMS Subject code: BP704T

I	Controlled drug delivery systems Polymers-Introduction, terminology/definitions and rationale, advantages, disadvantages, selection of drug candidates.	https://youtu.be/Pm-mLjKTcOM
	Approaches to design controlled Release formulations based on diffusion, dissolution and ion exchange principles.	https://youtu.be/S_ghlwKkrzI
	Release formulations based on dissolution	https://youtu.be/6YK4TF7ceCg
	Release formulations based on ion exchange principles.	https://youtu.be/YeYZ8tSpAzs
	Polymers in CDDS	https://youtu.be/rYfdA3yKAgw
II	Microencapsulation- Definition, advantages and disadvantages, microsphere/microcapsules, m icroparticles, methods of microencapsulation, applications	https://youtu.be/gCHTRRch8gA
	Mucosal Drug Delivery system	https://youtu.be/IS_FfuBN1GI
	Implantable Drug Delivery Systems	https://youtu.be/hOQsqxhQ4Jc
III	Transdermal Drug Delivery Systems	https://youtu.be/BKZmM5K0_Rs
	TDDS Permeation Enhancers	https://youtu.be/tI3EeeB9L0c
	Transdermal drug delivery system Basic components & approaches	https://www.youtube.com/watch?v=pEvj2eqg3ds
	Gastroretentive drug delivery systems	https://youtu.be/RdDSXr0vCiE
	Approaches for GRDDS	https://youtu.be/J0pueVVRbdM
	Nasal and Pulmonary routes of drug delivery	https://youtu.be/aNYI92vrS_o
	Nasal sprays,	https://youtu.be/xG53wgvHdMY
	Nebulizers	https://youtu.be/sJdBUgyxbCI
	Dry powder inhaler	https://youtu.be/BD2HVe9Ue5s
	Metered Dose Inhaler	https://youtu.be/Xh-BD-58W9A
IV	Targeted drug Delivery Concepts and approaches advantages and disadvantages	https://youtu.be/V1h6aqrtx40





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	Liiposomes	https://youtu.be/UHeg8tctQII
V	Ocular Drug Delivery Systems	https://youtu.be/U4vOTBFOHA4
	Intrauterine Drug Delivery Systems	https://youtu.be/qM2GRsEwXI0
SEM VIII		
Subject: SOCIAL AND PREVENTIVE PHARMACY		
Subject code: BP802T		
I	Concept of health and disease: Definition, concepts and evaluation of public health. Understanding the concept of prevention and control of disease, social causes of diseases and social problems of the sick.	https://youtu.be/FDYCwxhK2wI
	Social and health education: Food in relation to nutrition and health, Balanced diet,	https://youtu.be/lcAX4nsuV6A
	Sociology and health: Socio cultural factors related to health and disease, Impact of urbanization on health and disease, Poverty and health	https://youtu.be/B20V0rIytIY
	Hygiene and health: personal hygiene and health care; avoidable habits	https://youtu.be/qQO8D-h11-g
II	Hypertension,	https://youtu.be/5sWifSE3GKA
Subject - COMPUTER AIDED DRUG DESIGN		
Subject Code -BP 807 ET		
I	Introduction to Drug Discovery and Development	https://www.youtube.com/watch?v=NXIYYjmJ8p8
	Fibonacci I drug design	https://www.youtube.com/watch?v=kywOT8-uXks
	Emerging trends I drug discovery	https://www.youtube.com/watch?v=oArNDnc7-X0
	Molecular modeling-CADD basics	https://www.youtube.com/watch?v=A55vEBdXfeQ
II	Quantitative Structure Activity Relationship (QSAR)	https://www.youtube.com/watch?v=8v7ht0RwWrA





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		https://www.youtube.com/watch?v=9wOUA_zTXeZo
Subject -ADVANCED INSTRUMENTATION TECHNIQUES Subject Code -BP 811 ET.		
II	Thermal Methods of Analysis: Principles, instrumentation and applications of Thermo-gravimetric Analysis (TGA),	https://youtu.be/kmEszsBok-w
	Differential Thermal Analysis (DTA),	https://youtu.be/kZ1rYO7N-ss
	Differential Scanning Calorimetry (DSC)	https://youtu.be/uVZmn8t6Hhw
IV	Extraction techniques: General principle and procedure involved in the solid phase extraction and liquid-liquid extraction	https://youtu.be/m81k-dEkwhY https://youtu.be/fG4rkvE7dRg
	Radio immune assay: Importance, various components, Principle, Different methods, Limitation and Applications of Radio immuno assay	https://youtu.be/CCtfqJTJWKc https://youtu.be/OzjFKRLX7nc https://youtu.be/CCtfqJTJWKc
V	Hyphenated techniques-LC-MS/MS	https://youtu.be/PMeol_cfnkM https://youtu.be/Cf5YWnz0FQw

PRINCIPAL

K.K.Wagh College of Pharmacy
Panchavati, Nashik-422 003

