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
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7.3

Institutional Distinctiveness

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7.3.1

Portray the performance of the Institution in one are distinctive to its priority and thrust

7.3: Institutional Distinctiveness

7.3.1: Portray the performance of the Institution in one area distinctive to its priority and thrust

Sr. No	Content
A	You tube channel details
B	Udemy channel details

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7.3.1

A – You Tube Channel Details

7.3: Institutional Distinctiveness

7.3.1: Portray the performance of the Institution in one area distinctive to its priority and thrust

A- You Tube Channel Details

Sr. No	Content
a.	You Tube Channel Links of Faculty
b.	Screenshots of You Tube Channels of Faculty
c.	Theory Links
d.	Practical Links

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You Tube Channel Links of Faculty

Sr.No	Name of the faculty	You tube Channel Link	No. of You tube videos
1	Dr. K.S.Jain	www.youtube.com/@kishorjain169	27
2	Dr. R.D. Amrutkar	https://www.youtube.com/channel/UCe5eLi2cFXeMoiVtwknJjIw?app=desktop	77
3.	Dr. A.P. Bedse	https://www.youtube.com/@anjalibedse8239	28
4.	Dr. V.G.Bhamare	ONLINE PHARMA GURUKUL - YouTube	37
5.	D.K. Kadakm	https://www.youtube.com/channel/UCBXaeZJx7woTX9gXECsLvzA	56
6.	S.S. Raut	https://youtube.com/@shilpaborate-raut3874	71
7.	K.P. Baviskar	https://www.youtube.com/channel/UCB6_4T1qFWdlcNAMub23Prg	35
8.	D.V. Jain	https://www.youtube.com/@dipalijain07	11
9.	V. N. Tambe	https://www.youtube.com/@varshatambe243/featured	01
10.	P.N. Shingote	www.youtube.com/@prajaktashingote882	02
11.	B.B. Amrute	https://www.youtube.com/@bhaveshamrute6487	32
12.	S. D. Dawange	https://www.youtube.com/@shamaldawange4285	50
13.	S. H. Patil	https://www.youtube.com/@surabhipatil4165	92
14.	R. R. Deshmukh	https://www.youtube.com/@rutujadeshmukh754	31
15.	M. V. Dalvi	https://www.youtube.com/@mitalidalvi596	04

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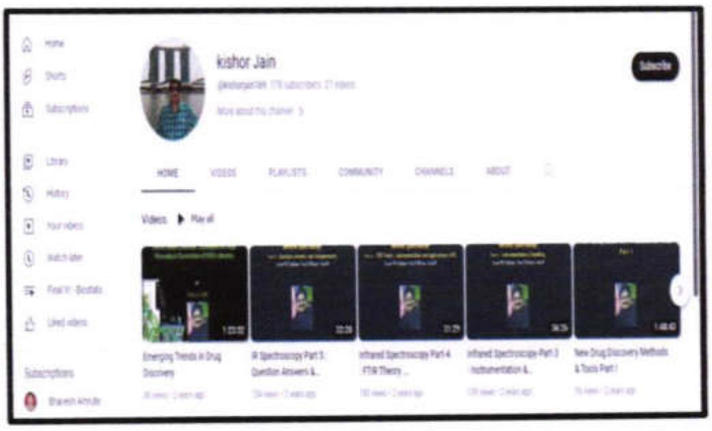
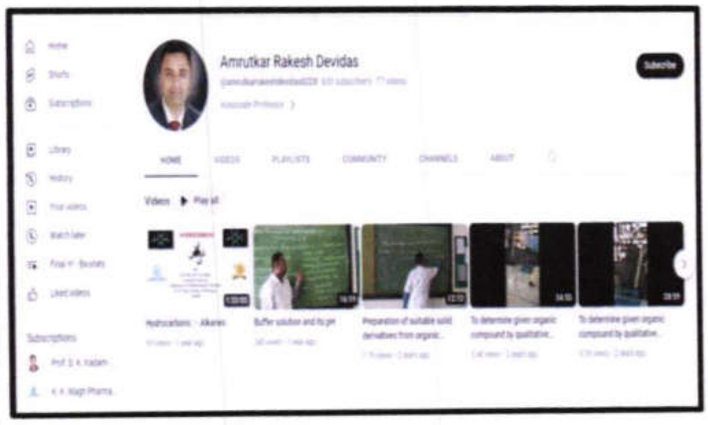
Screenshots of You tube channels of Faculty members

b. Screenshot of You Tube Channel of Faculty

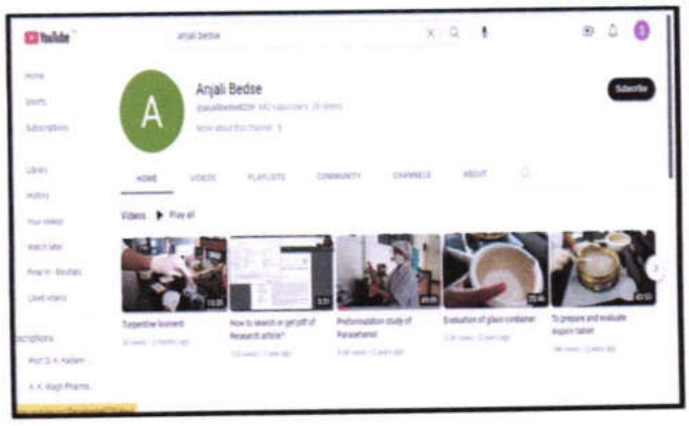
1. Dr. K.S. Jain



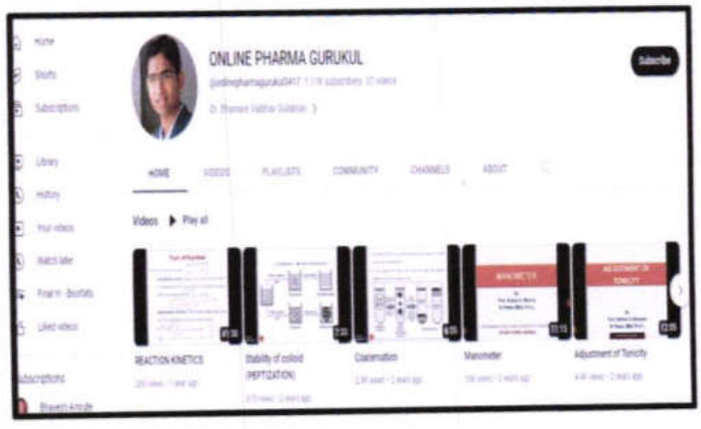
2. Dr. R.D. Amrutkar



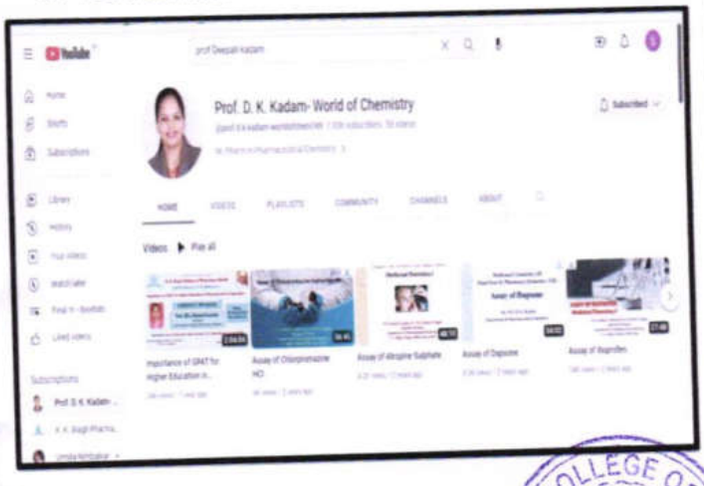
3. Dr. A.P. Bedse



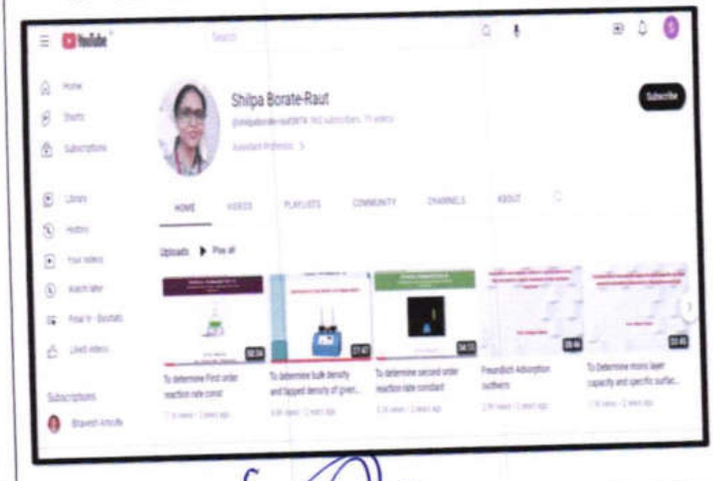
4. Dr. V.G. Bhamare



5. D.K. Kadam



6. S.S. Raut



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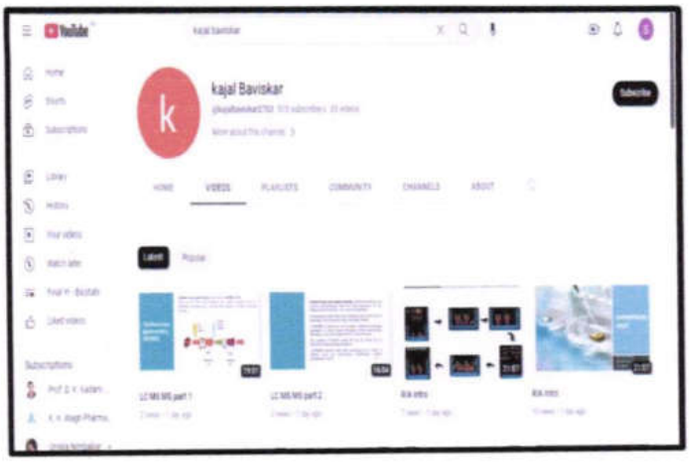
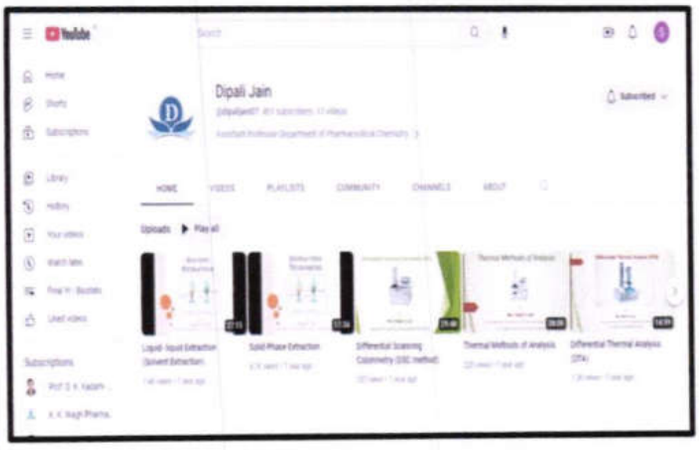
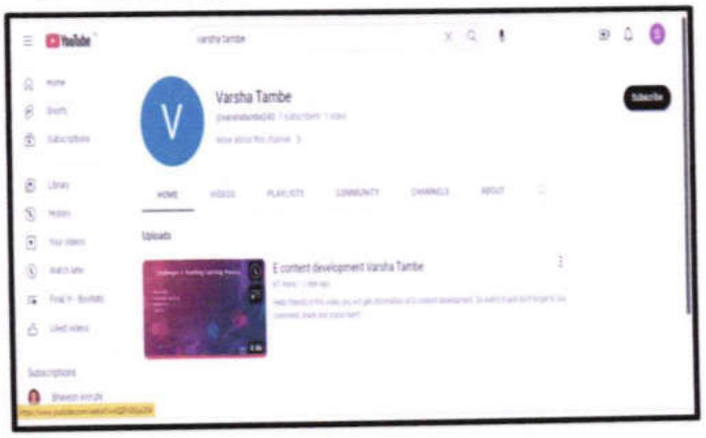
7. K.P. Baviskar



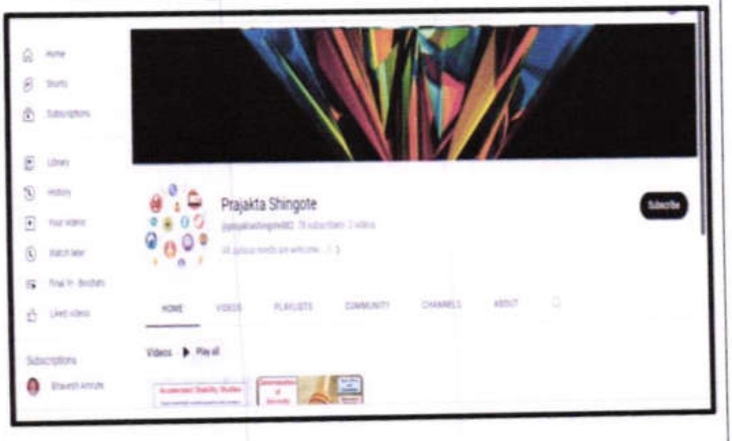
8. D.V. Jain



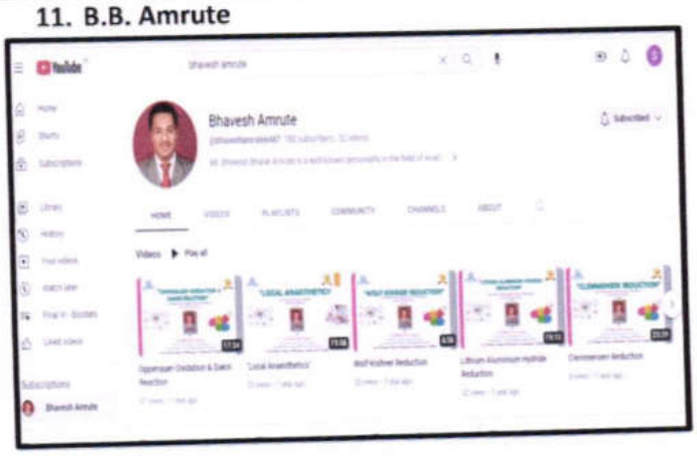
9. V.N. Tambe



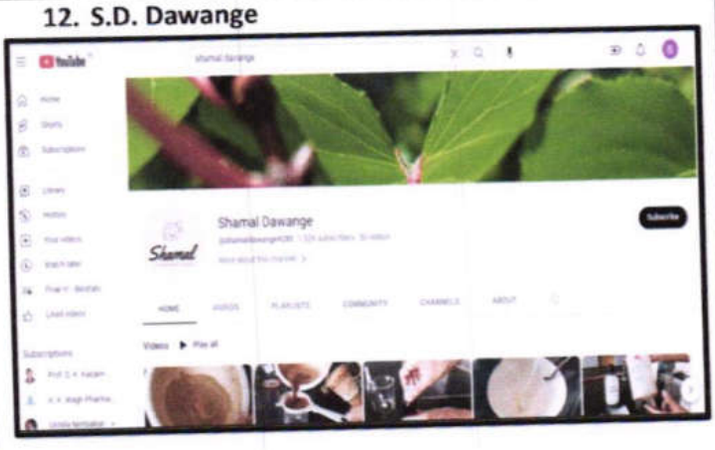
10. P.N. Shingote



11. B.B. Amrute



12. S.D. Dawange



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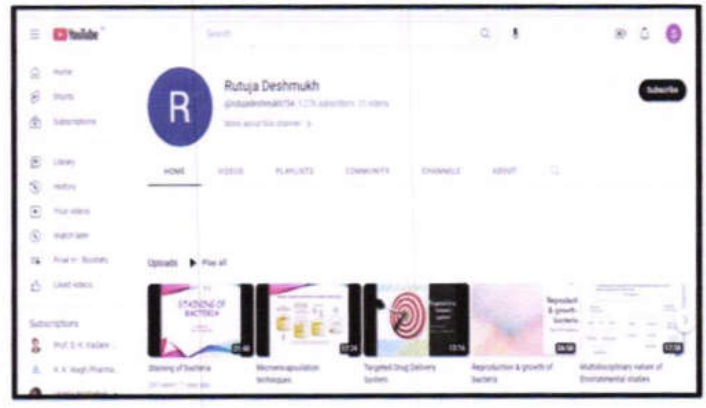
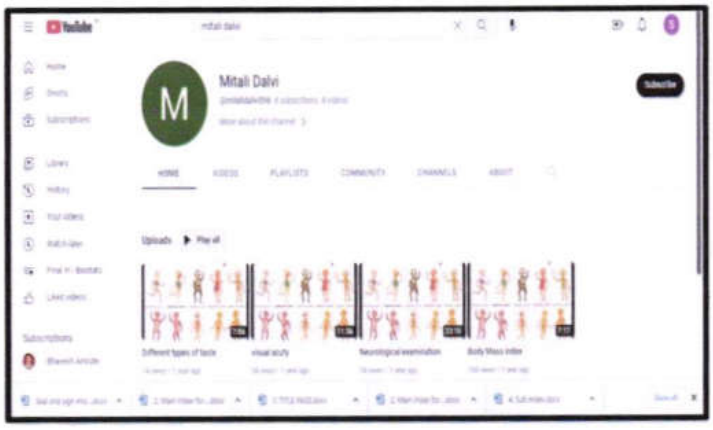
13. S.H.Patil

14. R. R. Deshmukh



15. M. V. Dalvi



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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/8p3IvBavd2o 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=aNaWzheeZe0&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/NQ1PXLEgSlE
	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
	Permangnometry and bromatometry	https://youtu.be/7QL2Urz0Gos
	Iodimetry, Iodometry, Bromatometry, Dichrometry, Titration with potassium iodate	https://youtu.be/wnbbkJfejcE
V	Electrochemical methods of analysis Potentiometry	https://youtu.be/VL534mwbk6A
	Conductometer	https://youtu.be/Os-beSKiilkk https://youtu.be/bcYW5A72LIg

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Subject: Pharmaceutics- I Subject code: BP103T		
I	Historical background and development of profession of pharmacy	https://youtu.be/91XlF61-6pE
	Dosage forms Liquid dosage forms	https://youtu.be/83at5A11Zd0 https://youtu.be/p2We9h2VBP0
	Powders	https://youtu.be/aZ-eCvXUBOA
	Prescription	https://youtu.be/Dd3T7hvPWrc https://youtu.be/fgXjF5ZtuxE
	Posology Pharmaceutical calculation	https://youtu.be/mO51mvGQBEU
II	Pharmaceutical calculations	https://youtu.be/p2We9h2VBP0
	Powders	https://youtu.be/aZ-eCvXUBOA
	Liquid dosage forms	https://youtu.be/p2We9h2VBP0
III	Monophasic liquids	https://www.youtube.com/watch?v=QCvrnVgoj-0 https://youtu.be/11buwvni7YI
	Suspension	https://youtu.be/4Jj9uTjNZjc https://youtu.be/TRWUoaGLjxI
	Emulsions	https://youtu.be/L37AMzL7MCs https://youtu.be/AYcX9sAVpGI
IV	Suppositories	https://youtu.be/NipFVY4Nrh8
	Pharmaceutical incompatibilities	https://youtu.be/tD2TrNlITG4
V	Semisolid dosage forms Preparation of semisolid dosage form	https://youtu.be/sff2r46K2Ko
	Excipients used in semi solid dosage forms. Evaluation of semi solid dosages forms	https://www.youtube.com/watch?v=AfdhvKe7mhI
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/jq8TIss0yr0 https://youtu.be/3ON6Bov373Y
	Dental products	https://youtu.be/sOYbVF89X8I
III	Gastrointestinal agents Acidifiers:	https://youtu.be/BdRsJuIKKFo
	Protective and Adsorbent	https://youtu.be/Oon8ALBabvs
	Antacid:	https://youtu.be/xFyB7farpuY
	Cathartics	https://youtu.be/KvRDeEDAhl8
	Antimicrobials	
IV	Miscellaneous compounds Expectorants	https://youtu.be/7UtPPvyHrVI
	Haematinics:	https://youtu.be/O4uoy13rquc
	Poison and Antidote:	https://youtu.be/DAr7ryEA0r4
	Astringents	https://youtu.be/7vaJF2L4Yqw
V	Radiopharmaceuticals Radio activity, Properties of α, β, γ radiations, Half-life, radio isotopes and study of radioisotopes	https://youtu.be/zvnH72OodlE
	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 Organization of nervous system	https://youtu.be/XYD9hWlZhBI
	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/drpum30TcIw https://youtu.be/J1vv74X2Ybg https://youtu.be/QxrL8Z2q6MY
	Urinary system	https://youtu.be/kJYCJeRgaAM
IV	Endocrine system Hormones	https://youtu.be/YvhPiSBu76E
	Endocrine Gland	https://youtu.be/u5JByysJyek
	Disorders of endocrine gland	https://youtu.be/Qwig6QIhK1k

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/SGTxzv0dmCs
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/2r1ZlC4jEEI 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/0lRkOMoa4lE
	Glycogen metabolism	https://youtu.be/uuQlWAW6FPM
	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

K. K. WAGH COLLEGE OF PHARMACY
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(Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, MSBTE, Mumbai & Approved by PCI)

Subject: Pathophysiology Subject code: BP204T		
I	Basic principles of Cell injury and Adaptation	https://youtu.be/pb3Dbm5VWrM
	Apoptosois	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/B9ZAAtQzKDU
	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=VczYHBLbLVw
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 Substution	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/2dYdgyWPlDo
	Saponification Value	https://youtu.be/sF5pZPZDkUE

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	Reichert Meissl (RM) value	https://youtu.be/DmsUcwbGbnQ
IV	Polycyclic Aromatic Hydrocarbons - Naphthalne	https://www.youtube.com/watch?v=2avsx_lBKtI&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/WcrZZJflTrc
	Roult's law and it's 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/IrarE7kdrg8
	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/r5jMVFtG6Ns
	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-vlKI
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

	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_RIrs
	principles, construction, working, uses, merits and demerits of Tray dryer, drum	https://youtu.be/XJaFScJErQA

	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 Hetero cyclic compounds-Oxazole	https://www.youtube.com/watch?v=YvV21Bc-Fj0
	Hetero cyclic compounds Pyrazole	https://youtu.be/J9pTO85_laA https://youtu.be/FJH5GXpDrOs

	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/lDwaxP1C9js
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/l7gTSs4lnFw
	Determination of viscosity, capillary, falling Sphere, rotational viscometers	https://youtu.be/B5jXD8aWB6w
III	Coarse dispersionSuspension, 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	Micromeretics- 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 basicrate constants, determination of reaction order.	https://youtu.be/RaFiJ32UaGg
	Physical and chemical factors influencing the chemical degradation ofpharmaceutical product: temperature, solvent, ionic	https://youtu.be/UruxU6ru9aM

	strength, dielectric constant, specific & general acid base catalysis	
	Stabilization of medicinal agents against common reactions like hydrolysis & oxidation.	https://youtu.be/m-IUkLyW6c8
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 ofdrug 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=oOtyQN2Nl78&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=3GSnI77VYXI&t=2s
	Drugs to treat Bipolar disorders	https://www.youtube.com/watch?v=oDh9iZeSWd4&t=43s

	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	ttps://youtu.be/xL1OkVnzkjU
	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
	Tannins,	https://youtu.be/mH-3LqmvQgw
V	**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

	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/J5-6TBTlDqk https://youtu.be/D9QmfILv8Gs
	Anti-hypertensive Agents	https://youtu.be/sipVFHssv5M
IV	Drugs acting on Endocrine system: ACE Inhibitors	https://youtu.be/agfgtRk9w9M
	Sex hormones,	https://youtu.be/N4cSkU6fRPM
	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- Procaine, Benzocaine, Dibucaine	https://youtu.be/9rASaxRQJlc
Subject: Industrial Pharmacy I– Theory Subject code: BP502T		
I	Preformulation -Objective and Goal	https://youtu.be/uNKfXWyVAQM

	a. Physical properties: particle size, shape	https://youtu.be/s08jhbfZ1eQ 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: a. Hard gelatin capsules: filling	https://youtu.be/TbUT-svxFdk https://youtu.be/gTsruog2YJo
	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/jrFP9lmQHyI https://youtu.be/KkrbRSiwUS0

		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** a. Drug used in the therapy of shock	https://youtu.be/jNHGhB-mauI https://youtu.be/3csRWWEw1cw
	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

	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_hAiqUA&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: a) Terpenoids-Menthol, Citral, Artemisin	https://youtu.be/Z2kmuuhZNCQ
	b) Glycosides Glycyrhetinic acid & Rutin c) Alkaloids Atropine,Quinine,Reserpine,Caffeine	https://youtu.be/sFvd699dfww
	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=lX_N7OK2EGo
	Super critical fluid extraction	https://youtu.be/ENlsG0Awc1o
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 drugsLaboratory, 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/EIqPiy8Bmpk
	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 Approaches to drug design: Part I	https://youtu.be/8v7ht0RwWrA https://youtu.be/NXlYYjmJ8p8
	Fibonnaci 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 though 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 ,t1/2,Vd,AUC,Ka, Clt and CLR-	https://youtu.be/QUxDNBEjLZY

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	definitions methods of eliminations, understanding of their significance andapplication	
IV	Multicompartment models Kinetics of multiple dosing, calculation of loading and mainetnance 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_LDnL3flU
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_5U6C2SStw
	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/vbOw29lKoEU
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-compatability Complex	https://youtu.be/WCA4opqyhDg

	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.beDVfvCJyYpR4
	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

	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/applications-of-uv-v-lgcpe/
	Fluorimetry	https://youtu.be/kVDIkUlPQEg
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

	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_UlEU
	Thin layer chromatography	https://youtu.be/MVJYGJh4T5I
	Paper chromatography	https://youtu.be/vaknxFqn9YI
	Electrophoresis	https://youtu.be/bXrq4ZaGJFQ
IV	Gas chromatography High performance liquid chromatography	https://youtu.be/xjv6ZXEsKZ4 https://youtu.be/pNv1604YDTQ https://youtu.be/9y7ju5KV84k https://youtu.be/eb-AcrKKht8
V	Ion exchange chromatography Gel chromatography-	https://youtu.be/dfMK0hz-rVo 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

	Investigators broachers	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/gCHRTRch8gA
	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

	Liiposomes	https://youtu.be/UHeg8tctQlI
V	Ocular Drug Delivery Systems	https://youtu.be/U4vOTBFOHA4
	Intrauterine Drug Delivery Systems	https://youtu.be/qM2GRsEwXl0
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=NXlYYjmJ8p8
	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

		https://www.youtube.com/watch?v=9wOUAzTXeZo
Subject -ADVANCED INSTRUMENTATION TECHNIQUES Subject Code -BP 811 ET.		
II	Thermal Methods of Analysis: Principles, instrumentation and applicationsof 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

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K.K. WAGH COLLEGE OF PHARMACY NASHIK-3

K. K. WAGH COLLEGE OF PHARMACY
(B. Pharmacy & D. Pharmacy)
Hirabai Haridas Vidyanagari, Amrutdham, Panchavati, Nashik - 422 003. (Maharashtra) India.
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(Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, MSBTE, Mumbai & Approved by PCI)

Practical Links

Sr. no.	Subject	Youtube links
F.Y. B.Pharm		
Human Anatomy and Physiology		
1.	Study of compound microscope	https://youtu.be/JCKOHY7Eyks
2.	Microscopic study of epithelial and connective tissue	https://youtu.be/qwugRyC24_A
3.	Identification of axial bones	https://youtu.be/bY8zx_SHHQM
4.	Identification of appendicular bones	https://youtu.be/RgdQN9Gv0JQ
5.	Introduction to hemocytometry	https://youtu.be/WUgRYPVHIBw
6.	Enumeration of white blood cell (WBC) count	https://youtu.be/wCHkGHfwOqo
7.	Enumeration of total red blood corpuscles (RBC) count	https://youtu.be/dhz8IzU6Y6o
8.	Determination of bleeding time	https://youtu.be/F4WzbKJnlZY
9.	Estimation of hemoglobin content	https://youtu.be/55sy3dgC-6o
10.	Determination of blood group	https://youtu.be/4ReFN0mPiaY
11.	Determination of heart rate and pulse rate	https://youtu.be/QQpjlGlSprk
12.	Recording of blood pressure	https://youtu.be/Dt4tck7YRKI
Pharmaceutical Analysis I		
1.	Preparation and standardization of 0.1 N NaOH	https://youtu.be/V7IyyaNs5Xg
2.	Limit Test for Chloride	https://youtu.be/g5yF1HQHMqk
3.	Preparation and standardization of 0.1N H2SO4	https://youtu.be/YAefihzAn4s
4.	Assay of Hydrogen peroxide	https://youtu.be/x8yZRFS5_Wc
5.	Preparation and standardization of 0.1M Ceric Ammonium Nitrate	https://youtu.be/ZyZVkjjScK8
6.	Assay of sodium benzoate	https://youtu.be/pagWd9wA5ko
7.	To perform limit Test of Iron	https://youtu.be/WGU5JfNt4nY
8.	To perform assay of ammonium chloride	https://youtu.be/okOVVu8TOrA
9.	To perform preparation and standardisation of KMnO4	https://youtu.be/S92jSIHPpr8
10.	To perform Standardization of sodium thiosulphate	https://youtu.be/8GImJLIe11o
11.	To perform Assay of copper sulphate	https://youtu.be/rOrn1MpXFeA

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Pharmaceutics I		
1.	To prepare and submit Lugol's Solution	https://youtu.be/I7LPhSAXkV8
2.	To prepare and submit Calamine Lotion	https://youtu.be/h8FJsUskViM
3.	To prepare and submit Turpentine Liniment	https://youtu.be/1QbI5t6XLR4
4.	To prepare and submit Carbopol Gel	https://youtu.be/PejtVCxh-j0
5.	To prepare & submit liquid paraffin emulsion	https://youtu.be/rOZEk6pP_Jo
6.	To prepare & submit Piperazine citrate elixir BPC	https://youtu.be/p9awnsUGMTs
7.	To prepare & submit Sulphur ointment	https://youtu.be/1TfElygrXZ0
8.	To prepare & submit Non staining iodine ointment with methyl salicylate	https://youtu.be/zI_Pm-pwd_0
9.	To prepare and submit Zinc Oxide Suppository	https://youtu.be/MGAG3bocv2Y
10.	To prepare and submit Magnesium Hydroxide Mixture	https://youtu.be/1sDN9KHqj_k
11.	To prepare and submit Aluminium Hydroxide Gel	https://youtu.be/NGiqN5VCuJM
12.	To prepare and submit Divided powder	https://youtu.be/59Larc9_QJY
13.	To prepare and submit Iodine Throat Paint (Mandl's Paint)	https://youtu.be/qC3fOO6eSJo
14.	To prepare and submit Effervescent Granules	https://youtu.be/7q_9iZpao3Y
15.	To prepare and submit Cocoa Butter Suppository	https://youtu.be/6a6gnR3zisc
16.	To prepare and submit Chlorhexidine Mouthwash	https://youtu.be/yGkDbGfUXOM
Pharmaceutical Inorganic Chemistry		
1.	To perform limit test for Chloride	https://youtu.be/CcwlO7g9OrI
2.	To perform limit test for Sulphate	https://youtu.be/sIrtEN0Ve6w
3.	To perform limit test for Iron	https://youtu.be/TVd3xcAOM_Q
4.	To perform limit test for Heavy Metal	https://youtu.be/gxLcKRvDk18
5.	To perform limit test for Arsenic	https://youtu.be/IKL_aDBM_PE
6.	To perform limit test for Lead	https://drive.google.com/file/d/1Ul-jFWdHVJmJXuCP_oOrKdOoYfamB0lw/view?usp=sharing
7.	Identification test for Magnesium	https://youtu.be/I2V-GuJj4Jc

	Hydroxide	
8.	Identification test for Cooper Sulpate	https://youtu.be/JWDnVyIXytU
9.	Identification test for Fessous Sulphate	https://youtu.be/mT00hPxOXcM
10.	Identification test for Sodium Bicarbonate	https://youtu.be/Y-UveCxoHDg
11.	Identification test for Calcium Gluconate	https://youtu.be/usp7YDp3WRk
12.	To determine Swelling Power (Index) of Bentonite	https://youtu.be/4lVD--i-Voo
13.	To determine potassium iodate and iodine in potassium iodide	https://youtu.be/n9s6El8xguA
14.	To perform the synthesis of Boric acid	https://youtu.be/D3-kOq8XToM
15.	To perform the synthesis of Potash Alum	https://youtu.be/QWZ-EJZSfbQ
16.	To perform the synthesis of Ferrous Sulphate	https://youtu.be/---cXWrgIek
Pharmaceutical Inorganic Chemistry		
1.	To determine given organic compound by qualitative analysis (Phthalic acid)	https://youtu.be/q0a9F6DbsJ4
2.	To determine given organic compound by qualitative analysis(α- Naphthol)	https://youtu.be/1lUxIFvCn5s
3.	To determine given organic compound by qualitative analysis. (Thiourea)	https://youtu.be/W7Ov4gpi4J4
4.	To determine given organic compound by qualitative analysis.(Benzoic acid)	https://youtu.be/nOkF0muSNGM
5.	To determine given organic compound by qualitative analysis.(Benzaldehyde)	https://youtu.be/YwowFgb-1D4
6.	To determine given organic compound by qualitative analysis. (Aniline)	https://www.youtube.com/watch?v=EAWuP6PrEr4
7.	To determine given organic compound by qualitative analysis. (Glucose)	https://youtu.be/gfH3g5UkAfc
8.	Preparation of suitable solid derivatives from organic compounds. Carboxylic Acid (Amide derivative)	https://youtu.be/UZ7YkMtD0oA
9.	Preparation of suitable solid derivatives from organic compounds. Amines/Phenol (Benzoyl Derivative)	https://youtu.be/FlhAq4FpCkM
10.	Preparation of suitable solid derivatives from organic compounds. Urea (Nitrate derivative)	https://youtu.be/2wHPTU_hTPc
11.	Preparation of suitable solid	https://youtu.be/MS4nBtfEftA

	derivatives from organic compounds. Amines/Phenol (Picrate derivative)	
12.	Preparation of suitable solid derivatives from organic compounds. Aldehyde/ ketone (Phenyl Hydrazone derivative)	https://youtu.be/UwpGTRvMmEI
Biochemistry		
1.	Qualitative analysis of carbohydrates (Maltose and Lactose)	https://youtu.be/EK8wC5rtBOs
2.	Qualitative analysis of carbohydrates (Sucrose and starch)	https://youtu.be/vz-6n_l7GoA
3.	Identification tests for Proteins (albumin and Casein)	https://youtu.be/bYvBT9x5v9k
4.	Quantitative analysis Proteins (Biuret method)	https://youtu.be/-QoDBO8hoCs
5.	Qualitative analysis of urine for abnormal constituents	https://youtu.be/a-zCNgAuEwg
6.	Preparation of buffer solution and measurement of pH	https://youtu.be/e9LUyW8-04Y
7.	Study the effect of substrate concentration on salivary amylase activity	https://youtu.be/mxSLbA9erMM
Practical links (Sem-III)		
Subject: Pharmaceutical Organic Chemistry-II	**Sem-III**	**Subject code**: BP305 P
Sr. No.	**Aim**	**You tube links**
1.	Recrystallization of alpha napthol	https://youtu.be/AqhJRR8Ch5U
2.	Recrystallization of benzoic acid	https://youtu.be/X-X3VwKHrAQ
3.	Recrystallization of aspirin	https://youtu.be/SR-1CQsB5Zg
4.	Synthesis of Acetanilide	https://youtu.be/wft44js_ZHY
5.	Synthesis of Salicylic acid	https://youtu.be/hmXqK_onAis
6.	Synthesis of 2,4,6-tribromoaniline	https://youtu.be/B-Zurs1CfNI
7.	Synthesis of dibenzalacetone	https://youtu.be/AfatQ8zBe0o
8.	Syntehsis of Bezil	https://youtu.be/rfz7p93nr5Q
9.	Synthesis of p-bromoacetanilide	https://youtu.be/1pgAFSB_E2I
10.	Determination of saponifiaction value.	https://youtu.be/sIrN_lmXGk8
11.	Synthesis of Benzoic acid from ethyl benzoate	https://youtu.be/YgAu3ws_Ung
12.	Determination of acid value	https://youtu.be/dvWOUcr0GLE
13.	Synthesis of Benzoic acid from Benzyl chloride	https://youtu.be/AK5hHIzIXrA
Subject: Physical Pharmaceutics-I	**Sem: III**	**Subject code**: BP306P
Sr. No.	**Aim**	**You tube links**

1.	To determine surface tension of given liquids by drop count method.	https://youtu.be/NGnPY_1UUIE
2.	To determine surface tension of given liquids by drop weight method.	https://youtu.be/vefX1C3HYik
3.	To determine critical micellar concentration of given surfactant.	https://youtu.be/ntBkkS2PzCM
4.	To determine % composition of NaCl in a solution using phenol-water system by CST method	https://youtu.be/xNqzW5G1Qa4
5.	To determine monolayer capacity and specific surface area of activated charcoal by adsorption method	https://youtu.be/ZBUSBeQY66c
6.	To verify Freundlich Adsorption Isotherm and to determine the constants k and b involved in the isotherm equation.	https://youtu.be/B9EGKOTQasY
7.	To determine the solubility of benzoic acid at room temperature.	https://youtu.be/3Z6Dv4b43HY
8.	To determine Partition co- efficient of benzoic acid in benzene and water	https://youtu.be/EMZy2bRPmXc
9.	To determine partition coefficient of iodine in water and carbon tetrachloride.	https://youtu.be/92179GUxHg0
10.	To determine HLB number of a surfactant by saponification method.	https://youtu.be/jsbP9ijxUTM
11.	To determine pKa value by Half Neutralization/ Henderson Hasselbalch equation.	https://youtu.be/JmISAl0EaqY
Subject:	Pharmaceutical Microbiology Practical	**Sem: III** **Subject code**: BP307P
Sr. No.	**Aim**	**You tube links**
1.	To identify given sample of microorganism by Gram Staining Technique	https://youtu.be/z0x4OtGxx9I
2.	To study the given sample organism by simple Staining	https://youtu.be/T_8LXAkleVY
3.	To prepare & sterilize nutrient broth & nutrient agar	https://youtu.be/ZNYpAolULqU
4.	To prepare & sterilize culture media for Fungi	https://youtu.be/vQoQbsM4Wlc
5.	To determine motility of microorganisms by Hanging drop method.	https://youtu.be/OM55-wpDCMs

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6.	To prepare & sterilize Nutrient stabs and slants	https://youtu.be/-C8I4h_ul4o
7.	To perform isolation of pure culture of micro-organisms by multiple streak plate technique	https://youtu.be/DOaVBLbuYfQ
8.	To perform isolation of pure culture of micro-organisms by spread plate technique	https://youtu.be/yaevOfsLvaE
9.	Introduction and study of Autoclave & hot air sterilizer	https://youtu.be/Gu9ub-csWuc
10.	Introduction and study of B.O.D. incubator, refrigerator & centrifuge	
11.	Introduction and study of laminar flow & microscope	
12.	Introduction and study of deep freezer	
Subject:	Pharmaceutical Engineering Practical	**Sem: III** **Subject code**: BP308P
Sr. No.	**Aim**	**You tube links**
1.	To evaluate the particle size distribution of tablet granules by sieve method.	https://youtu.be/3mq6tl9CreI
2.	Steam Distillation-to calculate efficiency of steam distillation	https://youtu.be/uJAU5o4af8k
3.	To determine moisture content and loss on drying	https://youtu.be/UMzuSwEskIw
4.	Effect of time on rate of crystallisation	https://youtu.be/J2aJY-CLWwM
5.	To determine the overall heat transfer coefficient by heat exchanger.	https://youtu.be/92Dj-5WUzXs
6.	To construct drying curve for calcium carbonate & starch	https://youtu.be/eD0f3mZq5UI
7.	To study the factors affecting rate of Evaporation.	https://youtu.be/Jle8-CNo9-U
8.	To study the factors affecting rate of filtration	https://youtu.be/ONa6aXApBps
9.	To determine humidity of air by dew point method	https://youtu.be/NI7aUpjrrJ8
10.	To determine humidity of air by dry & wet bulb method	https://youtu.be/t_UVIdbK-2Y
11.	Demonstration of colloid mill, planetary mixer, fluidized bed dryer, freeze dryer	https://youtu.be/IwTGGyzAJjQ
12.	Description of Construction working and application of Pharmaceutical	https://youtu.be/VWcIny3lDd4

	Machinery such as rotary tablet machine, fluidized bed coater, fluid energy mill, de humidifier final video	

Practical links (Sem-IV)

Sem-IV	**Subject: Physical Pharmaceutics -II**	**Subject code: BP407P**
Sr. No.	**Aim**	**You tube links**
1.	To determine angle of repose and influence of lubricant on angle of repose.	https://youtu.be/JDg7_fd10mY
2.	To determine particle size and particle size distribution using sieving method.	https://youtu.be/3mq6tl9CreI
3.	To determine particle size, particle size distribution using Microscopic method.	https://youtu.be/Qxcn7UT4RLA
4.	To determine first order reaction rate constant.	https://youtu.be/kPONd5Wo-Yg
5.	To determine second order reaction rate constant	https://youtu.be/k16cvTtp2aw
6.	To determine bulk density and tapped density of powders or granules	https://youtu.be/GvSaz7pWz5A
7.	To determine sedimentation volume with effect of different suspending agent.	https://youtu.be/rjT_zc1wzoY
8.	To determine sedimentation volume with effect of different concentration of single suspending agent.	https://youtu.be/VVcFEdlGeL0
9.	To determine viscosity of given liquid using brookfields viscometer	https://youtu.be/KUZ67eCYzVY
10.	Accelerated Stability testing	https://youtu.be/GiDG0gdbsXg
11.	To determine viscosity of given liquid using ostwald's viscometer	https://youtu.be/f3vkrpE_-xA
Sem-IV	**Subject -Pharmacognosy and Phytochemistry I – Practical**	**Subject code BP409P**
Sr. No.	**Aim**	**You tube links**
1.	To analyze theTragacanth powder by using chemical tests	https://youtu.be/X6RrwCKli-w
2.	To analyze the Acacia powder by using chemical tests	https://youtu.be/hr0m032vqo8
3.	To analyze the Agar powder by using chemical tests	https://youtu.be/L9DtMudosU4
4.	To analyze the Gelatin powder by using chemical tests	https://youtu.be/jH1IaDTcSck

5.	To analyze the starch powder by using chemical tests	https://youtu.be/96vsgRHAl5k
6.	To analyze the Honey powder by using chemical tests	https://youtu.be/cudzxtxCTLo
7.	To analyze the Castor oil by using chemical tests	https://youtu.be/bINFXXBt5Ek
8.	Determination of Stomatal number and index	https://youtu.be/qSks-zMf5m4
9.	Determination of vein islet number, vein islet termination	https://youtu.be/krpDz6LWcNo
10.	Determination of palisade ratio	https://youtu.be/ISXTzj88hWs
11.	Determination of size of calcium oxalate crystals by eye piece micrometer	https://youtu.be/jqCu0eTtcGQ
12.	Determination of Fiber length and width	https://youtu.be/AprOYv4gQAE
13.	Determination of moisture content of crude drugs	https://youtu.be/y2GZ_qFgars
14.	Determination of size of starch grains, by eye piece micrometer	https://youtu.be/0sTwPHvKKPQ
Sem V	**Subject-Industrial Pharmacy-I**	**Subject code: BP506P**
Sr. No.	**Aim**	**You tube links**
1.	Preformulation study of Paracetamol	https://youtu.be/jE6GyzzBdSs
2.	Evaluation of glass container	https://youtu.be/_QVv1OOMflo
3.	To prepare Calcium gluconate injection	https://youtu.be/4UFc8HrdGqo
4.	To prepare Ascorbic acid injection.	https://youtu.be/nkrr9FD4stQ
5.	To prepare and evaluate Aspirin tablet	https://youtu.be/r_3bSQd2xv0
6.	Evaluation of Marketed preparation (Amoxycillin capsule)	https://youtu.be/U435d5E5rDI
7.	To Prepare & evaluate Paracetamol tablet	https://youtu.be/mMFCN5BD_bE
Subject:	**Pharmacognosy and Phytochemistry II –Practical**	**Subject code: BP508P**
Sr. No.	**Aim**	**You tube links**
1.	To study morphology, histology and powder characteristics of Cinchona	https://youtu.be/X6RrwCKli-w
2.	To study morphology, histology and powder characteristics of Ephedra.	https://youtu.be/hr0m032vqo8
3.	To study morphology, histology and powder characteristics of CLOVE	https://youtu.be/L9DtMudosU4
4.	To study morphology, histology and powder characteristics of SENNA	https://youtu.be/jH1IaDTcSck

	LEAF	
5.	To study morphology, histology and powder characteristics of CORIANDER	https://youtu.be/96vsgRHAl5k
6.	To perform analysis of Asafoetida by chemical tests	https://youtu.be/cudzxtxCTLo
7.	To perform Analysis of ALOE by chemical test	https://youtu.be/bINFXXBt5Ek
8.	To perform Analysis of MYRRH by chemical test	https://youtu.be/qSks-zMf5m4
9.	To study morphology, histology and powder characteristics of Cinnamon.	https://youtu.be/krpDz6LWcNo
10.	To study morphology, histology and powder characteristics of Fennel.	https://youtu.be/ISXTzj88hWs
11.	To perform analysis of Benzoin by chemical tests	https://youtu.be/jqCu0eTtcGQ
12.	To perform analysis of Colophony by chemical tests	https://youtu.be/AprOYv4gQAE
13.	Separation of sugars by Paper chromatography	https://youtu.be/y2GZ_qFgars
14.	To perform isolation & detection of active principles of Caffeine - from tea dust	https://youtu.be/0sTwPHvKKPQ

Sem V **Subject: Pharmacology II –Practical** **Subject code: BP507P**

Sr. No.	Aim	You tube links
1.	Introduction to in-vitro pharmacology and physiological salt solutions	https://youtu.be/C6HqP9bf650
2.	Effect of drugs on isolated frog heart	https://youtu.be/ekTzzBgX3bE
3.	Effect of drugs on blood pressure and heart rate of dog	https://youtu.be/9mpAiEps7aU
4.	Study of diuretic activity of drugs using rats/mice	https://youtu.be/SYcQ1ykLojU
5.	DRC of acetylcholine using frog rectus abdominis muscle	https://youtu.be/Raf90eJVePg
6.	Effect of physostigmine and atropine on DRC of acetylcholine using frog rectus abdominis muscle and rat ileum respectively	https://youtu.be/SNDQ-ccx1GU
7.	Bioassay of histamine using guinea pig ileum by matching method	https://youtu.be/2LzN_FHnkLY

8.	Bioassay of oxytocin using rat uterine horn by interpolation method	https://youtu.be/qTnTUvxSSyg
9.	Bioassay of serotonin using rat fundus strip by three point bioassay	https://youtu.be/X_sg7XS2zEk
10.	Bioassay of acetylcholine using rat ileum/colon by four point bioassay	https://youtu.be/9FE31Qdzsd8
11.	Determination of PA2 value of prazosin using rat anococcygeus muscle (by Schilds plot method).	https://youtu.be/pid0Tbp3bBs
12.	Determination of PD2 value using guinea pig ileum	https://youtu.be/Qms2A2AqjAA
13.	Effect of spasmogens and spasmolytics using rabbit jejunum.	https://youtu.be/40cg6-SxBZY
14.	Anti-inflammatory activity of drugs using carrageenan induced paw-edema model	https://youtu.be/Ss1VEQzZJW8
15.	Analgesic activity of drug using central and peripheral methods	https://youtu.be/qJT1Wl8pXvs
16.	Introduction to in-vitro pharmacology and physiological salt solutions	https://youtu.be/C6HqP9bf650
Sem VI	**Subject: Medicinal chemistry III – Practical**	**Subject code: BP607P**
Sr. No.	**Aim**	**You tube links**
1.	Synthesis of 7-Hydroxy, 4-methyl coumarin	https://youtu.be/xgsToWfhy4k
2.	Synthesis of Chlorobutanol	https://youtu.be/jsSK7xPP_qo
3.	Synthesis of Triphenyl imidazole	https://youtu.be/M-kLNrf3bT8
4.	Synthesis of Hexamine	https://youtu.be/zHwDU0HB2N8
5.	Assay of Dapsone	https://youtu.be/5bg27aL_Upc
6.	Assay of Metronidazole	https://youtu.be/FeOf7RRAqXE
7.	Assay of Isoniazid	https://youtu.be/qUT-HiWwOR0
8.	Microwave assisted synthesis of Benzoic acid	https://youtu.be/h4tZP0s_06s
9.	Microwave assisted synthesis of Phenytoin	https://youtu.be/oqPmRPdbf1I
10.	Synthesis of Sulphanilamide	https://youtu.be/HBNre64UtsU
11.	Drawing structures and reactions using chem draw	https://youtu.be/rhIA1GYNKoM
12.	Determination of physicochemical properties of the drugs course content using free online services	https://youtu.be/ocw1STr22s8

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Sem VI	**Subject: Herbal Drug Technology – Practical**	**Subject code: BP609P**
Sr. No.	**Aim**	**You tube links**
1.	Indentification of phytoconstituents by chemical test part-ii	https://youtu.be/FjQk8LWGP7I
2.	Analysis of tragacanth by chemical test	https://youtu.be/bHhgP5Bgirc
3.	Identification of phytoconstituents part-1	https://youtu.be/DjYiiiMLBiY
Sem VII	**Subject- Instrumental Methods of Analysis – Practical**	**Subject code: BP705P**
Sr. No.	**Aim**	**You tube links**
1.	Estimation of glucose by colorimetry	https://youtu.be/ds8hvNzaAR0
2.	Determination of lambda max of KMnO4 by Colorimetry	https://youtu.be/rGs0y0sQNr4
3.	Simultaneous estimation of ibuprofen and paracetamol by UV spectroscopy	https://youtu.be/oHj0Oz7xpok
4.	Estimation of quinine sulfate by fluorimetry	https://youtu.be/unZ_JEo2NsY
5.	Separation of sugars by paper chromatography	https://youtu.be/4L4dCRqLqBQ
6.	Determination of Na ions by Flame Photometry	https://youtu.be/U2NLlPcvuTw
7.	Determination of K ions by Flame Photometry	https://youtu.be/nb4H2l07XPw
8.	Demonstration of HPLC	https://youtu.be/RRWrxIC0B1Y
9.	Separation of components from the mixture by column chromatography	https://youtu.be/Vkn3airQBqU
10.	Demonstration of GC	https://youtu.be/dLxF44421-4
11.	Assay of Paracetamol Tablet by UV Spectroscopy	https://youtu.be/uHMeQu0OwIg
12.	To study effect of solvent on absorption spectrum of paracetamol	https://youtu.be/xgB4rLRKqk0
13.	Determination of chlorides and sulphates by nepheloturbidometry	https://youtu.be/XKMtrRE_zgE
14.	To study the effect of Quenching on Fluorescence of Quinine Sulphate	https://youtu.be/jLns3NpAoLk
15.	Separation of sugars by Thin layer chromatography	https://youtu.be/qwzQj5qP_tI

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7.3.1

B – Udemy Channel Details

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Udemy Course Details

Sr. No.	Name of Staff	No. of course	Total no. of Enrolments	No. of Countries from which enrolments are received	Course links
1	S. D. Malode	01	644	76	https://www.udemy.com/course/role-of-pharmacognosy-in-traditional-systems-of-medicines/
2	K. P. Baviskar	01	205	48	https://www.udemy.com/course/flame-photometry/
3	K.P. Mahajan	04	4556	126	https://www.udemy.com/course/human-anatomy-physiology
4	D. V.Jain	02	933	58	https://www.udemy.com/course/thermal-analysis/?referralCode=C90102E7F22712579296
5	Dr. R.D. Amrutkar	01	388	56	https://www.udemy.com/course/basics-on-stereochemistry/
6	S.S. Raut	01	636	74	https://www.udemy.com/course/cloning-vectors/
7	S. H. Patil	02	128	37	https://www.udemy.com/course/cell-injury-bones-infectious-diseases/ https://www.udemy.com/course/unit-operations-size-reduction-size-separation/
8	Dr. A. P. Bedse	01	145	44	https://www.udemy.com/course/dispersed-system/
Total		**13**	**7635**	**519**	

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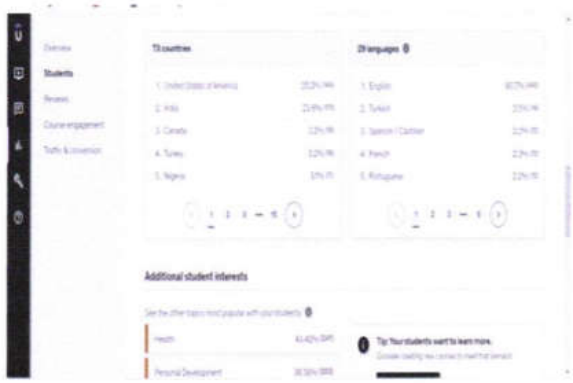
Screenshots of Udemy Course channels of Faculty members

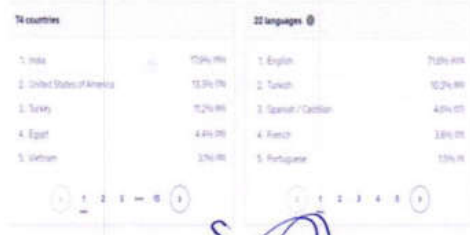
S. D. Malode



K.P. Baviskar

K.P. Mahajan

D.V.Jain



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