



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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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/QQpjlGIsprk
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 H ₂ SO ₄	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/ZyZVkjScK8
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 KMnO ₄	https://youtu.be/S92jSIHPpr8
10.	To perform Standardization of sodium thiosulphate	https://youtu.be/8GImJLle1lo
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/Ccw1O7g9Orl
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/1UI-jFWdHVJmJXuCP_oOrKdOoYfamB0lw/view?usp=sharing
7.	Identification test for Magnesium	https://youtu.be/I2V-GuJ4Jc





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	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/n9s6EI8xguA
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/1IUxIFvCn5s
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





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	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_17GoA
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 naphthol	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.	Synthehsis of Bezil	https://youtu.be/rfz7p93nr5Q
9.	Synthesis of p-bromoacetanilide	https://youtu.be/1pgAFSB_E2I
10.	Determiration of saponifiaction value.	https://youtu.be/sIrN_lmXGk8
11.	Synthesis of Benzoic acid from ethyl benzoate	https://youtu.be/YgAu3ws_Ung
12.	Determiration 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





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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/JmISAI0EaqY
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	





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	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/GiDG0gdbXg
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 the Tragacanth 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





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5.	To analyze the starch powder by using chemical tests	https://youtu.be/96vsgRHA15k
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 (Amoxicillin 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





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	LEAF	
5.	To study morphology, histology and powder characteristics of CORIANDER	https://youtu.be/96vsgRHA15k
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





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8.	Bioassay of oxytocin using rat uterine horn by interpolation method	https://youtu.be/qTnTUvxSSyq
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 PA ₂ value of prazosin using rat anococcygeus muscle (by Schilds plot method).	https://youtu.be/pid0Tbp3bBs
12.	Determination of PD ₂ 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/qJT1W18pXvs
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_go
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/h4tZPOs_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





K. K. WAGH COLLEGE OF PHARMACY

(B. Pharmacy & D. Pharmacy)

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(Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, MSBTE, Mumbai & Approved by PCI)

Sem VI		Subject: Herbal Drug Technology – Practical		Subject code: BP609P	
Sr. No.	Aim	You tube links			
1.	Identification 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/ds8hvNzaARO			
2.	Determination of lambda max of KMnO ₄ 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/U2NLIPcvuTw			
7.	Determination of K ions by Flame Photometry	https://youtu.be/nb4H2I07XPw			
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			

PRINCIPAL

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