



NIRMALA COLLEGE OF PHARMACY MUVATTUPUZHA

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FIRST CYCLE NAAC ACCREDITATION 2023

CRITERION 2



TEACHING- LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences using ICT tools



Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL



2.3.1. QIM: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

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2.3.1. Q_iM: *Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools*

INCOORPORATION OF ICT TOOLS



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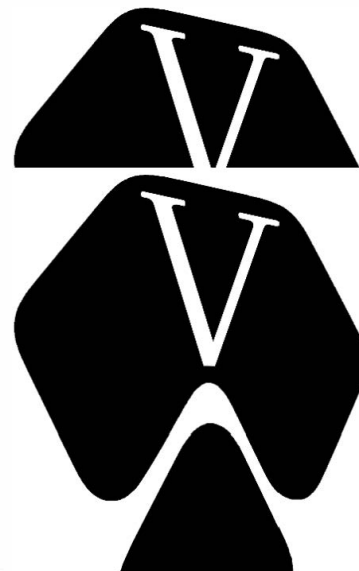
Information Software is available as a web-based platform or as a mobile app for Android and iOS devices. It is used by clinicians worldwide to make informed decisions for patient care.

Autodock Vina

AutoDock Vina is an open-source program for doing molecular docking, which is a technique to predict how a small molecule

Autodock Vina

AutoDock Vina is an open-source program for doing molecular docking, which is a technique to predict how a small molecule (such as a drug) binds to a larger molecule (such as a protein). AutoDock Vina is one of the docking engines of the AutoDock Suite, which is a collection of tools for computational docking and virtual screening. AutoDock Vina is designed to be fast, accurate, and easy to use, without requiring the user to tweak many parameters or understand the implementation details. AutoDock Vina is widely used by researchers and students in the fields of biochemistry, biophysics, pharmacology, and drug discovery.



Schrödinger

quantum mechanics, molecular dynamics, and machine learning. Maestro is the graphical user interface that provides access to the Schrödinger Suite, which is a collection of tools for molecular modeling and simulation. Maestro is designed to be intuitive, efficient, and customizable, with features such as advanced structure builders, easy chemical enumeration, remote job management, and cross-platform support. Maestro is widely used by researchers and students in the fields of biochemistry, biophysics, pharmacology, and materials science.



ChemSketch



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ChemSketch

ChemSketch is a software that allows you to draw and edit chemical structures, molecules, and reactions. It also calculates molecular properties, generates IUPAC names, and creates professional reports. ChemSketch is widely used by researchers and students in the fields of biochemistry, biophysics, pharmacology, and materials science. ChemSketch is based on the ChemDraw tool, which is very similar. ChemSketch is developed by ACD/Labs, which is a company that provides software solutions for chemical research and development.



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Swiss Institute of
Bioinformatics

estimate the most probable macromolecular targets of a small molecule, assumed as bioactive. The prediction is based on a combination of 2D and 3D similarity with a library of 370,000 known actives on more than 3,000 proteins from three different species. You can select a species (*Homo sapiens*, *Mus musculus*, or *Rattus norvegicus*), paste a SMILES (Simplified Molecular Input Line Entry System) string, or draw a molecule using the online editor, and submit your query to get a list of potential targets with scores and confidence levels. Swiss Target Prediction is part of the SwissDrugDesign suite of computer-aided drug design tools, which also includes SwissDock, SwissSimilarity, SwissBioisostere, and SwissADME. These tools can help you to discover new drug candidates, optimize their properties, and understand their mechanisms of action.



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ProtParam

ProtParam is a tool that computes various physical and chemical parameters for a given protein sequence. These parameters include the molecular weight, theoretical pI (isoelectric point), amino acid composition, atomic composition,

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Ex-Pharm

Ex-Pharm is a software that simulates animal experiments in pharmacology. It is a computer-assisted learning (CAL) tool that helps students and researchers to understand the effects of drugs on different animal systems. Ex-Pharm is developed by the Bureau for Health and Education Status Upliftment, New Delhi, and is available online for subscription. Ex-Pharm contains various programs that demonstrate drug actions on cardiovascular, respiratory, central nervous, autonomic nervous, gastrointestinal, and renal systems. Ex-Pharm also provides graphical and numerical data analysis, as well as quizzes and feedback. Ex-Pharm is a user-friendly, interactive, and realistic software that can enhance the learning and teaching of pharmacology.

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Sigma plot

communicate their data effectively.

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Graphpad Prism

I think you meant GraphPad Prism, not phpad prism. GraphPad Prism is a software that helps you analyze, graph, and present your scientific data. It is designed for scientists, not statisticians, and it can perform various types of statistical analyses, such as nonlinear regression, t tests, ANOVA, survival analysis, and more. It also lets you create publication-quality graphs, with many customization options and export formats. You can try GraphPad Prism for free for 30 days by signing up on their

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part of the Graphpad suite, which also includes Graphpad Prism for graphing and curve fitting, and Graphpad Statmate for sample size and power calculations.



Design expert



Design expert is a software that helps you perform design of experiments (DOE), which is a technique to plan and analyze experiments that involve multiple factors and responses. Design expert can help you compare different tests, screen important factors, optimize your process or product, and create reports and graphs. Design expert is developed by Stat-Ease Inc. and is

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Design expert

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penetration, and more. You can use Swiss ADME by entering one or more molecules in SMILES format, or by drawing them using the online sketcher. You can also select a species (human, mouse, or rat) for the target prediction. Swiss ADME will then display the results in a graphical and tabular format, with



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explanations and references for each parameter. You can also export the results as a CSV file. Swiss ADME is part of the SwissDrugDesign suite of computer-aided drug design tools, which also includes SwissDock, SwissSimilarity, SwissBioisostere, and SwissADME.



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PASS

The acronym PASS stands for Prediction of Activity Spectra for Substances. Using structural formula of a drug-like substance as an input, one obtains its estimated biological activity profile as an output. The predicted biological activity list includes the names of the probable activities with two probabilities: Pa – likelihood of belonging to the class of “Actives” and Pi – likelihood of belonging to the class of “Inactives”. PASS has been well accepted by the research community, and is now actively used in the field of medicinal chemistry, by both academic organizations and pharma companies.

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OUTCOME-BASED EDUCATION



PKMP

PKMP software is a product of APL, which is a company that provides software solutions and consulting services for pharmaceutical research and development. PKMP stands for Pharmacokinetic Modeling Program, and it is a software that supports data analysis in various areas of drug development, such as pharmacokinetics, pharmacodynamics, dissolution, in



G Power

G power software is a free-to-use software that helps you perform statistical power analyses for various types of tests, such as t tests, F tests, chi-square tests, z tests, and some others.



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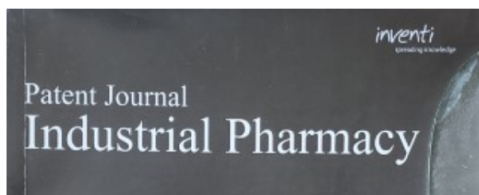
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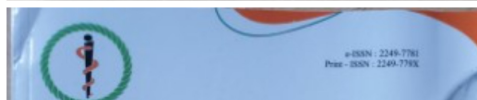
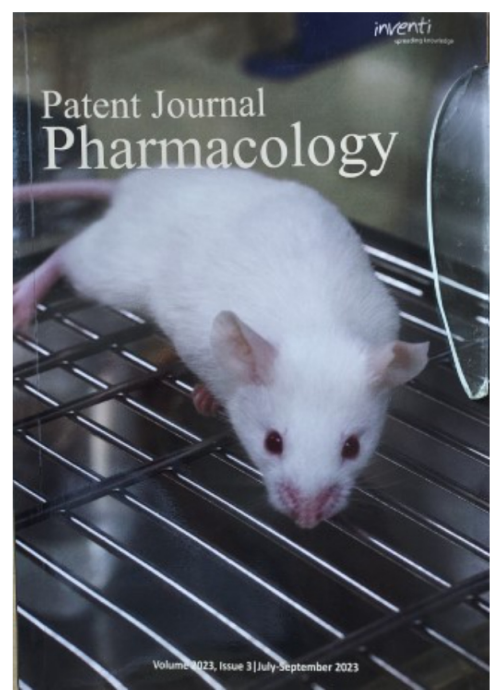
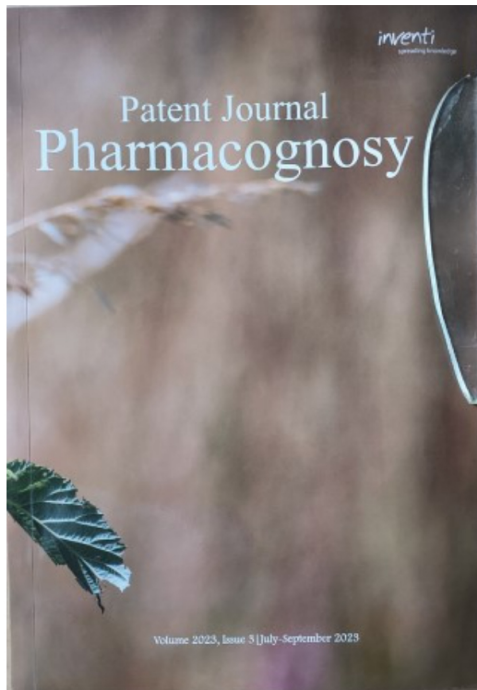
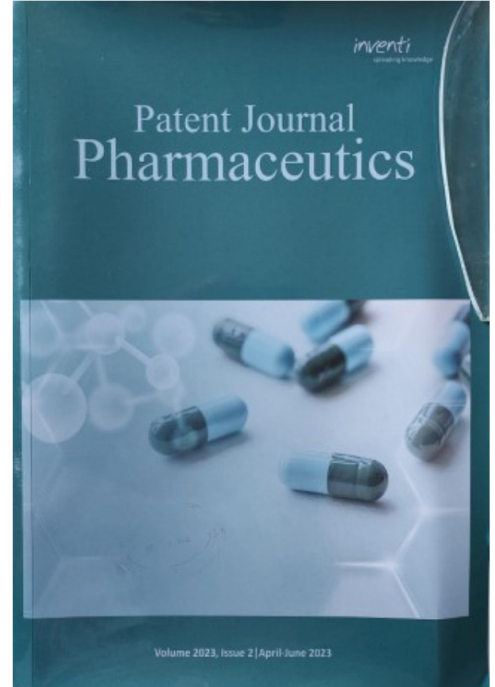
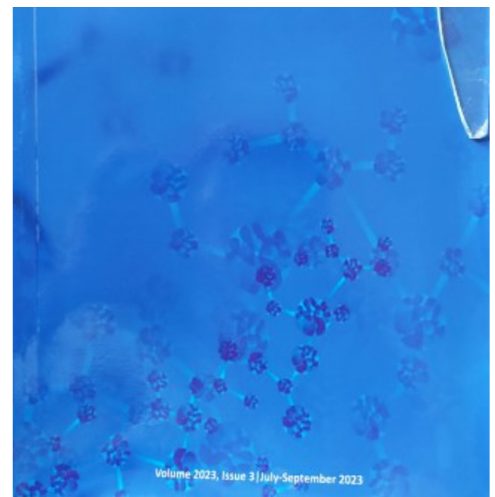
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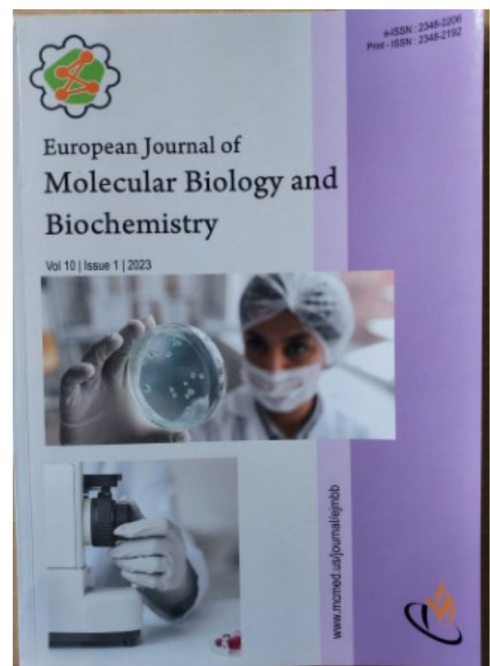
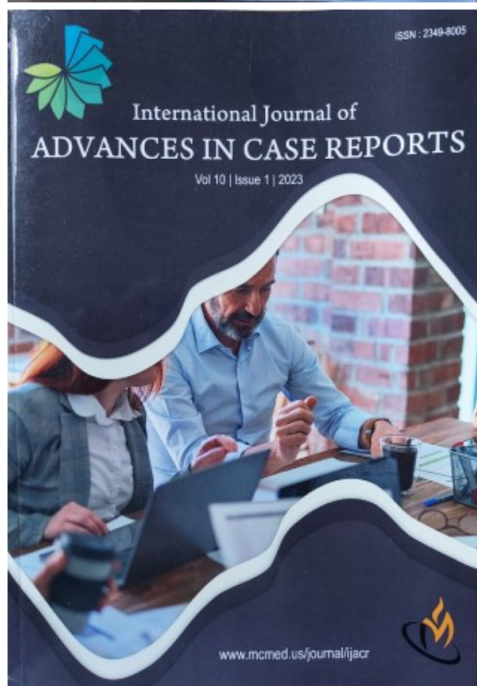
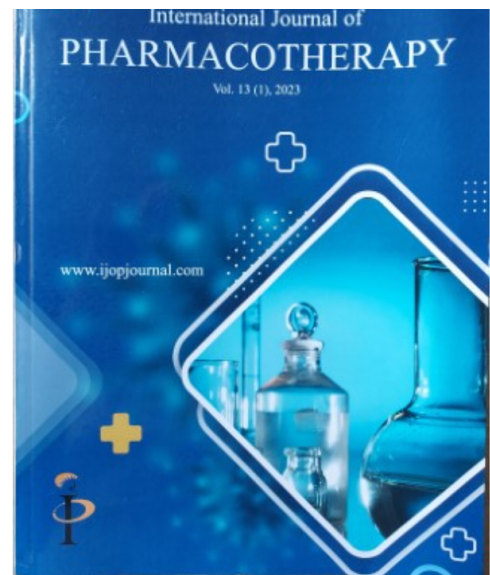
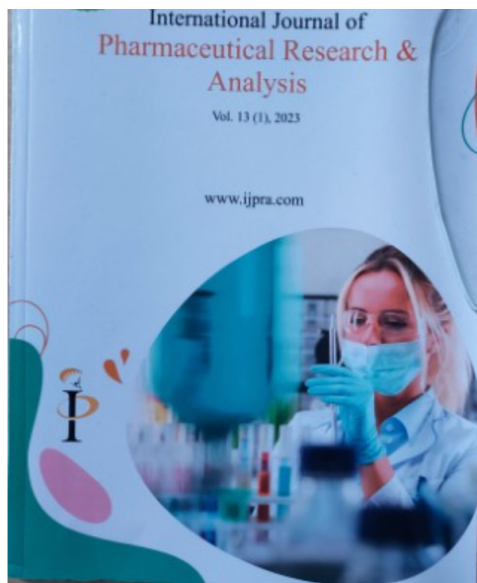
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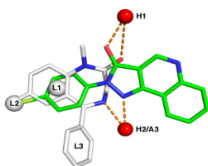
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Biopharmaceutics and Pharmacokinetics



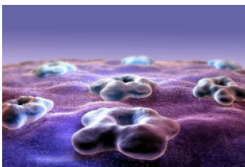
Medicinal Chemistry - I



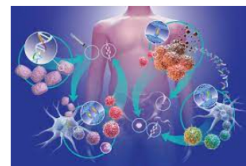
Medicinal Chemistry - III



Pharmacology



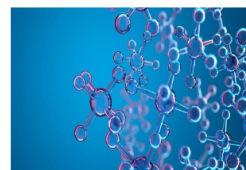
Receptors



Noval Drug Delivery System



Pharmaceutical Organic chemistry - I



Pharmaceutical Organic chemistry - III



Pharmacological and Toxicological Screening Methods





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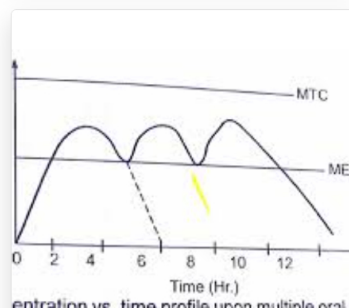
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$$C_{p,n} = C_{p,n-1} + C_{p,n}$$

$$C_{p,n} = C_{p,n-1}e^{-k_{el}t} + C_{p,n}$$

$$e^{-k_{el}t} = r$$

$$C_{p,n} = C_{p,n-1}r + C_{p,n}$$

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$$\frac{(1 - e^{-k_{el}t})}{(1 - e^{-k_{el}t})} = C_1^0 / (1 - r)$$

$$C_{ss, \min} = C_{ss, \max} r$$

$$= [C_1^0 / (1 - r)] r$$

$$= C_1^0 r / (1 - r)$$

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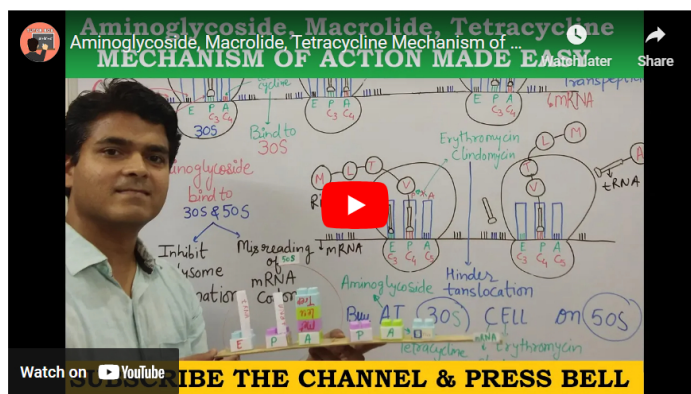
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- Comparison of clinical trial phases
- Primary disorders of plasma lipoproteins
- National Essential Drug List
- Therapeutic Drug Monitoring
- New Features of IP-2010
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- Schedule H
- Schedule H1
- Schedule L-I
- Schedule M
- Schedule M Amendment
- Schedule O
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- International Classification of Disease
- United State Pharmacopoeia - National Formulary
- GLP GUIDELINE HANDBOOK
- GCP GUIDELINE INDIA
- Method of Vaccine Production
- Quality Control for Vaccine Production
- Principle of Vaccine Production
- British Pharmacopoeia
- New Approved Drugs & Their IUPAC Name
- List of Approved Drug in India (Year Wise)
- 2012 ; 2011 ; 2010 ; 2009 ; 2008 ; 2007 ; 2005 ; 2004 ; 2003 ; 2002 ; 2001 ; 2000 ; 1999
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PHYSICAL PHARMACY

Pharmacy books free downloads	https://www.pdfdrive.com/search?q=pharmacy&pagecount=&pubyear=&searchin=&page=2
Web of Science Master Journal List	https://mjl.clarivate.com:/search-results?issn=0975-8232&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal
Angle of repose	https://www.youtube.com/watch?v=dXIIIQWhKDo
Cone and plate viscometer	https://www.youtube.com/watch?v=u3NzoMPyjBQ
Cup and bob viscometer	https://www.youtube.com/watch?v=5yBsyv5X5Oc
Cyclodextrin applications	https://www.youtube.com/watch?v=agaJ5np9BkY
Diffusion study	https://www.youtube.com/watch?v=aubZU0iWtgI
Disperse system	https://www.youtube.com/watch?v=XEAiIm2zuvc
Dissolution study	https://www.youtube.com/watch?v=FpkU123LVTc
Donnan membrane equilibrium	https://www.youtube.com/watch?v=SNvA7VDCmKQ
Drug protein binding	https://www.youtube.com/watch?v=sfR8IGQSKic
Drug stability	https://www.youtube.com/watch?v=hWg8I0jNQUY
Electric double layer	https://www.youtube.com/watch?v=Poo7m-xP0Es
Emulsion	https://www.youtube.com/watch?v=aNzZ8T9eomU
HLB	https://www.youtube.com/watch?v=xJDLysXbhAY
Micellar solubilization	https://www.youtube.com/watch?v=IWYZv4To8zl
Newtonian and non-newtonian fluids	https://www.youtube.com/watch?v=DQoelYi6qfw
Ostwald viscometer	https://www.youtube.com/watch?v=_S5r5upcyT4

Rheology	https://www.youtube.com/watch?v=Vr4TFGSvEDk
Rotating basket apparatus	https://www.youtube.com/watch?v=4HTEfvyasA0
Rotating paddle apparatus	https://www.youtube.com/watch?v=-zUW2bB8ZiM
Stokes law and disperse systems	https://www.youtube.com/watch?v=hXBTE8W8yCU
Structure of micelle	https://www.youtube.com/watch?v=tLTNH0k0dCk

PHARMACOLOGY

Antiarrhythmic drugs animation	https://www.youtube.com/watch?v=OnLsLByuo0E
Pharmacology of anabolic steroids	https://www.youtube.com/watch?v=maaRfHIM8ck
Pharmacology of anti adrenergics	https://www.youtube.com/watch?v=41Xloc_vvX8
Pharmacology of anti emetics	https://www.youtube.com/watch?v=zD_CWMIrb5s
Pharmacology of anti ulcer drugs	https://www.youtube.com/watch?v=7ogac031fSU
Pharmacology of antianginal drugs	https://www.youtube.com/watch?v=IkM6BsCUKVU
Pharmacology of antiarrhythmic drugs	https://www.youtube.com/watch?v=9xSgezCMHnw
Pharmacology of antibiotics	https://www.youtube.com/watch?v=mMk6VWVpRpo
Pharmacology of anticholinergics	https://www.youtube.com/watch?v=cp_CZpCBVpk
Pharmacology of antiepileptic drugs	https://www.youtube.com/watch?v=c-Cf1xkKofg
Pharmacology of antihistamines	https://www.youtube.com/watch?v=D5PHANcdA_E
Pharmacology of antihypertensives	https://www.youtube.com/watch?v=1SsYduKxE0Q
Pharmacology of autocoids	https://www.youtube.com/watch?v=qgQSulsy82o
Pharmacology of contraceptives	https://www.youtube.com/watch?v=Zx8zbTMTncs



Pharmacology of diuretics	https://www.youtube.com/watch?v=NzdvoGZqulk
Ach receptors	https://www.youtube.com/watch?v=P7pEUF3-IXI
Biotransformation	https://www.youtube.com/watch?v=JqDfF73xF98
Epidemiology	https://www.youtube.com/watch?v=Jd3gFT0-C4s
Pharmacodynamics	https://www.youtube.com/watch?v=tobx537kFal
Pharmacogenetic variation	https://www.youtube.com/watch?v=FfLjUCfMgSY
Pharmacokinetics	https://www.youtube.com/watch?v=NKV5iaUVBUI
Antifungal agents	https://www.youtube.com/watch?v=uU_OeL40E-E
Bioassay of insulin	https://www.youtube.com/watch?v=wJIJH3Iq6kA
Bioinformatics	https://www.youtube.com/watch?v=w-uk-TOgR0
CNS stimulants	https://www.youtube.com/watch?v=TfknQ59c5LM
Free radicals	https://www.youtube.com/watch?v=Q7AZiX6x56I
Pharmacodynamics	https://www.youtube.com/watch?v=x8QjeafCKGU
Stem cell therapy	https://www.youtube.com/watch?v=0CEmeCYtQXc

PHARMACY PRACTICE

Adverse drug reactions	https://www.youtube.com/watch?v=FIR57ogl8Xg
Clinical pharmacy	https://www.youtube.com/watch?v=9lZMazmFZpl
Community pharmacy	https://www.youtube.com/watch?v=2UiVfMJunx0
Drug and poison information	https://www.youtube.com/watch?v=HT4zwNadXe0
Drug distribution systems in hospital	https://www.youtube.com/watch?v=3ahUxZ23Zy4



Drug interactions	https://www.youtube.com/watch?v=Gj4Z5qxxk0XQ
Hospital pharmacy	https://www.youtube.com/watch?v=NtAMnKeNgwc
Pharmacoepidemiology	https://www.youtube.com/watch?v=rJ7iaAmv4_I

PHARMACOGNOSY

Alkaloids	https://www.youtube.com/watch?v=2d9QS3E5fvk
Drug adulteration	https://www.youtube.com/watch?v=NcEFfp-5yK8
Gene transfer	https://www.youtube.com/watch?v=cVdjIuzxP0k
Glycosides	https://www.youtube.com/watch?v=bLYyu3MG9V8
Herbaceous health foods	https://www.youtube.com/watch?v=wtDmnGzZNA8
Patenting of herbal drugs	https://www.youtube.com/watch?v=ckyuifBqB0c
Plant tissue culture	https://www.youtube.com/watch?v=bi755vQVNx8
Chemotaxonomy of medicinal plants	https://www.youtube.com/watch?v=LciVBJg9fng
Chromatographic methods	https://www.youtube.com/watch?v=XMtmSz_9umk
Extraction methods	https://www.youtube.com/watch?v=NgSuPTLkPgs
Introduction to ayurveda	https://www.youtube.com/watch?v=MBJW8ouHYFM
Marine pharmacognosy	https://www.youtube.com/watch?v=nQRYQxvbG8I
Plant allergens	https://www.youtube.com/watch?v=2SmknDqMk6M
Protein containing drugs	https://www.youtube.com/watch?v=kwy9fbrfBAY
Stability testing	https://www.youtube.com/watch?v=cvF9q-l2g20
Study of traditional drugs	https://www.youtube.com/watch?v=qm4XKF85WMQ
Chemotaxonomy of medicinal plants	https://www.youtube.com/watch?v=LciVBJg9fng



Apocynaceae	https://www.youtube.com/watch?v=xz5OWej_Rf4
Classification of drugs	https://www.youtube.com/watch?v=uk0MPsGvzMQ
Distillation	https://www.youtube.com/watch?v=V5ep0-ojPGw
Essential oils	https://www.youtube.com/watch?v=1vuLggcLDLg
History of pharmacognosy	https://www.youtube.com/watch?v=r1ZVRFUMmKY
Scope of pharmacognosy	https://www.youtube.com/watch?v=A19TtfTnYNQ
Soil	https://www.youtube.com/watch?v=I3A7OnTlSM8
Keller killiani test	https://www.youtube.com/watch?v=m2fR4Yx0Tbk
LIEBERMANN BURCHARD test	https://www.youtube.com/watch?v=Yqep2FYaPvA
Marine drugs	https://www.youtube.com/watch?v=934t21tv1vs
Morphology of digitalis	https://www.youtube.com/watch?v=YeS382iT74
Neutraceuticals	https://www.youtube.com/watch?v=dwQLnU-Fpac
Pharmacognosy of cinchona	https://www.youtube.com/watch?v=EDWJCUqx0b8
Pharmacognosy of datura leaves	https://www.youtube.com/watch?v=UWWjpKnFG4s
Pharmacognosy of ephedra	https://www.youtube.com/watch?v=HOJzW7qWjJU
Pharmacognosy of kurchi	https://www.youtube.com/watch?v=f1B6kuAYFQg
Pharmacognosy of linseed	https://www.youtube.com/watch?v=T6V2U5EHRQE
Pharmacognosy of rauwolfia	https://www.youtube.com/watch?v=wEtSX9gUWlw



Pharmacognosy of senna	https://www.youtube.com/watch?v=of5btIR6aBk
Pharmacognosy of vinca	https://www.youtube.com/watch?v=5uGGKDW2EJ4
Phytochemical screening of alkaloids	https://www.youtube.com/watch?v=m4ecluOEdI4
Phytochemical screening of anthraquinones	https://www.youtube.com/watch?v=GSHez85LKeo
Plants of solanaceae family	https://www.youtube.com/watch?v=ESqeAb1QXr4
Salkowski test	https://www.youtube.com/watch?v=50cdgbPkiGM
Sevia leaves to cure diabetis	https://www.youtube.com/watch?v=POd8_4vETeg
Shinodas test	https://www.youtube.com/watch?v=GjxM1TZPABg
Volatile oils	https://www.youtube.com/watch?v=uSwCRLtJ5IA
Alkaloids	https://www.youtube.com/watch?v=YxQo_uXKP2Q
Classification and extraction of alkaloids	https://www.youtube.com/watch?v=O8POuODAkdl
Glycosidal drugs	https://www.youtube.com/watch?v=xYg-12oyrwI
PHARMACEUTICS	
Aerosols	https://www.youtube.com/watch?v=VHKc_zHhK78
Capsules	https://www.youtube.com/watch?v=XrZgRCWH3No
Liniment	https://www.youtube.com/watch?v=o_jDD6HLV1E
Lozenges	https://www.youtube.com/watch?v=ugxfuLUqBW4
Soxhlet extraction	https://www.youtube.com/watch?v=mLq35x0g46g
Capsule	https://www.youtube.com/watch?v=XrZgRCWH3No
Controlled drug delivery system	https://www.youtube.com/watch?v=NyNUSTZo1FY



Cosmetic science	https://www.youtube.com/watch?v=LbMXj-94S1w
Lyophilisation	https://www.youtube.com/watch?v=-INsuz3H1M0
Sutures & ligatures	https://www.youtube.com/watch?v=dFmCxTLPlp4
Tablet compression	https://www.youtube.com/watch?v=g0-nEs8ydJw

BIOPHARMACEUTICS AND PHARMACOKINETICS

Bioavailability	https://www.youtube.com/watch?v=rv2RpdI7OHM
Bioequivalence	https://www.youtube.com/watch?v=LRk0RD1aEsg
Biotransformation phases	https://www.youtube.com/watch?v=sm6CTb6k41Q
Compartment model	https://www.youtube.com/watch?v=-QZWvpSNgs0
Introduction to biopharmaceutics	https://www.youtube.com/watch?v=yVuqxuuf8ZE
Non linear pharmacokinetics	https://www.youtube.com/watch?v=RO4nALnWQtk
Pharmacokinetics	https://www.youtube.com/watch?v=8-Qtd6RhfvA
Plasma protein binding	https://www.youtube.com/watch?v=HjYUKQvmpIQ

MICROBIOLOGY

Antibiotics	https://www.youtube.com/watch?v=OqQxtFcXNGk
Disinfection	https://www.youtube.com/watch?v=Hi4kXdEiZv0
Immobilisation	https://www.youtube.com/watch?v=oiTVJ91-YxQ
Immunity	https://www.youtube.com/watch?v=IMijCKKWask
Immunology	https://www.youtube.com/watch?v=LSYED-7riNY
Microbial genetics	https://www.youtube.com/watch?v=e55Aryj0E7o
Scope of microbiology	https://www.youtube.com/watch?v=QCsYM3Y0kfi



HUMAN ANATOMY AND PHYSIOLOGY

Body fluids and blood	https://www.youtube.com/watch?v=gNgB62WU_Lc
Cardio vascular system	https://www.youtube.com/watch?v=_lgd03h3te8
Cell transport mechanisms	https://www.youtube.com/watch?v=Ptmlvtei8hw
Endocrine system	https://www.youtube.com/watch?v=IAXv8Kxt4QU
Nervous system	https://www.youtube.com/watch?v=44B0ms3XPKU
Respiratory system	https://www.youtube.com/watch?v=WPiqgaMmOTE
Sense organs	https://www.youtube.com/watch?v=ZoFyghPA-w
Skeletal system	https://www.youtube.com/watch?v=Ltb7Ast9ryY
Tissues	https://www.youtube.com/watch?v=O0ZvbPak4ck

INDUSTRIAL PHARMACY

Ampoule filling and sealing machine	https://www.youtube.com/watch?v=iwF5g6xkPOE
Asceptic processing of sterile products	https://www.youtube.com/watch?v=Pus7r-X7sw8
Automatic capsule filling machine	https://www.youtube.com/watch?v=p9xj1-kqqe4



Manual pasule filling machine	https://www.youtube.com/watch?v=4MQSCuMwKI8
Quality control tests for parenterals	https://www.youtube.com/watch?v=GgW82kbFpkg
Quality control tests for tablets	https://www.youtube.com/watch?v=GtZoBi1YVKY
Sterility tests for parenterals	https://www.youtube.com/watch?v=AGGigackJ3o
Surgical ligatures and sutures	https://www.youtube.com/watch?v=dFmCxTLPlp4
Tablet coating	https://www.youtube.com/watch?v=fRnfWyi8BLQ
Tablet coating machine	https://www.youtube.com/watch?v=fRnfWyi8BLQ&t=5s

MEDICINAL BIOCHEMISTRY

antipsychotic drugs	https://www.youtube.com/watch?v=5oZ7_Shs8rY
Biosynthesis of catecholamines	https://www.youtube.com/watch?v=h6EILPUA80
Chemistry of beta lactem antibiotics	https://www.youtube.com/watch?v=l-uzVCJCRpE
Chemistry of sulphonamides	https://www.youtube.com/watch?v=hbGO1cbUlc8
Chemistry of alkylating agents	https://www.youtube.com/watch?v=hbGO1cbUlc8
Chemistry of amino glycosides	https://www.youtube.com/watch?v=N_jIOPL-6Lg
Computer aided drug designing	https://www.youtube.com/watch?v=N_jIOPL-6Lg



SAR of acetylcholine	https://www.youtube.com/watch?v=u6BVU_ISNsA
SAR of antihistamines	https://www.youtube.com/watch?v=u6BVU_ISNsA
SAR of barbiturate	https://www.youtube.com/watch?v=u6BVU_ISNsA
SAR of benzodiazepines	https://www.youtube.com/watch?v=ipY8_bN5UMw
SAR of morphines	https://www.youtube.com/watch?v=ipY8_bN5UMw
SAR of phenothiazine	https://www.youtube.com/watch?v=ipY8_bN5UMw
Taxols	https://www.youtube.com/watch?v=ipY8_bN5UMw
Tetracycline	https://www.youtube.com/watch?v=ipY8_bN5UMw

APPLIED BIOCHEMISTRY AND MOLECULAR BIOLOGY

Bioenergetics	https://www.youtube.com/watch?v=ipY8_bN5UMw
Cell organelles	https://www.youtube.com/watch?v=ipY8_bN5UMw
De novo synthesis	https://www.youtube.com/watch?v=ipY8_bN5UMw
Enzyme Kinetics	https://www.youtube.com/watch?v=X_YXTWU2maY
Glycolysis	https://www.youtube.com/watch?v=ZONAx1hmv0
Molecular biology	https://www.youtube.com/watch?v=o_-6JXLYS-k



Oxidative phosphorylation

<https://www.youtube.com/watch?v=jU2lnPwTXP0>

MATHEMATICS AND BIOSTATICS

Bar charts and pie charts

<https://www.youtube.com/watch?v=foyPpC3XjhE>

Bayes theorem

<https://www.youtube.com/watch?v=OqmJhPQYRc8>

Cumulative frequency curves

<https://www.youtube.com/watch?v=X9ajjBamRPc>

Cusstom software

<https://www.youtube.com/watch?v=PVoLlcMvcUY>

Logarithmic differentiation

<https://www.youtube.com/watch?v=Q27MGfI1V70>

Parametric differentiation

<https://www.youtube.com/watch?v=IRbddc3B-94>

Properties of laplace transformation

<https://www.youtube.com/watch?v=wP3Qj0Gx35Y>

Wireless network

<https://www.youtube.com/watch?v=3Bh4PcO2YJE>

MICROBIOLOG

' AND BIOTECHNOLOGY

acid fast staining

<https://www.youtube.com/watch?v=TCFpU8p3By4>

bacterial reproduction and gene transfer

https://www.youtube.com/watch?v=7sZ5Nz8_cfc

dry heat sterilization

<https://www.youtube.com/watch?v=Hiskoto6gNA>

flagellar motility

<https://www.youtube.com/watch?v=DMXW2ayJWsM>

gram positive vs gram negative bacteria

<https://www.youtube.com/watch?v=Jvo6lGKTvxA>

gram staining

<https://www.youtube.com/watch?v=vlnIDGmgQfk>

measurement of zone of inhibition

https://www.youtube.com/watch?v=LzmEwpl2_zl

membrane filtration demo

<https://www.youtube.com/watch?v=6EPDCLgoZpl>

moist heat sterilization

<https://www.youtube.com/watch?v=uY9nJ8X0YFE>

mutations

<https://www.youtube.com/watch?v=eDbK0cxKKsk>



negative staining <https://www.youtube.com/watch?v=avveXgPWVJ8>

polymerase chain reaction <https://www.youtube.com/watch?v=JmveVAYKylk>

recombinant DNA technology https://www.youtube.com/watch?v=ZW9zPdb_Bs0

structure and morphology of virus <https://www.youtube.com/watch?v=MRkcZ6gXiTY>

structure of Bacteriophage <https://www.youtube.com/watch?v=H1B-h7LwrZY>

structure of virus <https://www.youtube.com/watch?v=67ays2ZYr48>

PATHOPHYSIOLOGY AND HEALTH EDUCATION

cell injury <https://www.youtube.com/watch?v=GQxn64L2xIQ>

communicable diseases <https://www.youtube.com/watch?v=EjwV3hTzjeg>

health <https://www.youtube.com/watch?v=jXcUaLPivVU>

immunization <https://www.youtube.com/watch?v=wYCPouoYi14>

inflammation <https://www.youtube.com/watch?v=rQp9hq4emly>

neoplasm <https://www.youtube.com/watch?v=oL2lYOGGg1Q>

nutrition <https://www.youtube.com/watch?v=xLcnqMvlj7c>

PHARMACEUTICAL ANALYSIS

Complexometric titration https://www.youtube.com/watch?v=J_3iji3MIGw



Gravimetric analysis	https://www.youtube.com/watch?v=gR1ZUIV3n5E
Karl fischer method	https://www.youtube.com/watch?v=37ZzS8Qzp1A
Kjeldals method	https://www.youtube.com/watch?v=NNUNz0EKxck
neutralization titration	https://www.youtube.com/watch?v=emPxCnaqC8Y
non aqueous titrations	https://www.youtube.com/watch?v=6aDorKiN8LY
oxygen flask combustion	https://www.youtube.com/watch?v=-dtrCx9DCF0
precipitation titrations	https://www.youtube.com/watch?v=0dudK49febQ
redox titrations	https://www.youtube.com/watch?v=nVoSvpf4hXY
chromatography	https://www.youtube.com/watch?v=XMtmSz_9umk
conductometric titrations	https://www.youtube.com/watch?v=u9t4vBF0h9k
electrophoresis	https://www.youtube.com/watch?v=hXJxTqGb_XU
polarography	https://www.youtube.com/watch?v=lg9LFQwJGVE
potentiometric titrations	https://www.youtube.com/watch?v=pyKuEJMfljw
quality assurance	https://www.youtube.com/watch?v=P8H0MR4PtWw
thermal analysis	https://www.youtube.com/watch?v=wTpesPtYLkk

Pharmacveutical chemistry



dental products	https://www.youtube.com/watch?v=oHOqpuWInyM
gastrointestinal agents	https://www.youtube.com/watch?v=-KtML7h6Rcl
pharmacopoeia	https://www.youtube.com/watch?v=i4Trcw0fAZY
radio opaque media	https://www.youtube.com/watch?v=X9x-eyAOGsE
topical agents	https://www.youtube.com/watch?v=sLIWesksZxU
Assymetric synthesis	https://www.youtube.com/watch?v=vknwXFo9NA
Beckmann rearrangement	https://www.youtube.com/watch?v=l3krEewJViM
Curtias rearrangement	https://www.youtube.com/watch?v=8cVsJPEAkOs
Heterocyclic chemistry	https://www.youtube.com/watch?v=a_UxeVmXM9M
Manich reaction	https://www.youtube.com/watch?v=KB2FsGjP7-k
Poly nuclear hydrocarbon	https://www.youtube.com/watch?v=CtiiCoxcNh4
Racemic modification	https://www.youtube.com/watch?v=lyJexeU4aGU
Antihistaminic agents	https://www.youtube.com/watch?v=XHUy7fd65aI
Anti neoplastic agents	https://www.youtube.com/watch?v=AC8zCk00p9I
Antiprotozoal drugs	https://www.youtube.com/watch?v=EtWctWyh4DY
Anti psychotic drugs	https://www.youtube.com/watch?v=NEaaKfZrh9s
Cholinergic blocking agents	https://www.youtube.com/watch?v=g9Jy4Aa_Mpl
Drug design	https://www.youtube.com/watch?v=u49k72rUdyc
Isoterism	https://www.youtube.com/watch?v=0wluc1RIKNM



Baeyers theory	https://www.youtube.com/watch?v=2xYn9VXNd3Q
Cannizro reaction	https://www.youtube.com/watch?v=793FD3t757E
Conformer	https://www.youtube.com/watch?v=A6lbR16lBxY
Diazotisation	https://www.youtube.com/watch?v=cNBIYHmW_ok
Nucleophilic substitution reaction	https://www.youtube.com/watch?v=QAYriEIN-30
Sach Mohr Theory	https://www.youtube.com/watch?v=9p8s_OEsoqU
Walder Inversion	https://www.youtube.com/watch?v=9zwOq-loS6A
Williamson synthesis	https://www.youtube.com/watch?v=qZuHU0Kf7jE
Cholesterol stucture	https://www.youtube.com/watch?v=Mbuc0WoeDI8
Denaturation of proteins	https://www.youtube.com/watch?v=gEycDKQn93Y
Mutarotation in carbohydrates	https://www.youtube.com/watch?v=Flk2WJjaJP0
Prostaglandins	https://www.youtube.com/watch?v=cWkS5z6FCnY
Sapogenins	https://www.youtube.com/watch?v=lsQdrS4odJs
Terpenoids	https://www.youtube.com/watch?v=AOArva_NRzEo
Thyroid hormones	https://www.youtube.com/watch?v=b7JFqGMi9pk

Pharmaceutical jurisprudence

Banned drug	https://www.youtube.com/watch?v=idulYuexIIA
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Drug and cosmetics act	https://www.youtube.com/watch?v=0p-b_0vgISQ
Drug and magic remedies act	https://www.youtube.com/watch?v=Nlv9JYtQMSM
Forensic pharmacy	https://www.youtube.com/watch?v=PWFh4VaB3-s
Miniumm wages act	https://www.youtube.com/watch?v=0Ld78M3hfjo
Patent act	https://www.youtube.com/watch?v=7U6xxTrt_iQ
Pharmacy act	https://www.youtube.com/watch?v=DLx8OVlipHA

Pharmaceutical management

Good manufacturing practice	https://www.youtube.com/watch?v=3J1xJiN4yYA
Market research	https://www.youtube.com/watch?v=Zq391bgs6h0
Material management	https://www.youtube.com/watch?v=PusvVnC_4Uc
New drug application	https://www.youtube.com/watch?v=NkpPxIh-OoA
Preparation of journals	https://www.youtube.com/watch?v=0R0SNfYgmjc
Salesmanship	https://www.youtube.com/watch?v=YHie2DdS1vA
Stability testing	https://www.youtube.com/watch?v=cvF9q-l2g20

Pharmaceutical technology



Centrifugation	https://www.youtube.com/watch?v=KEXWd3_fm94
Distillation	https://www.youtube.com/watch?v=mP4Hgui-g6U
Drying	https://www.youtube.com/watch?v=5hKELMwDJNs
Evaporation equipment	https://www.youtube.com/watch?v=jRieOgIKdMQ
Filtration	https://www.youtube.com/watch?v=p-36m8iXLzA
Heat transfer	https://www.youtube.com/watch?v=066damakSAU
Mixing	https://www.youtube.com/watch?v=T-IDyR2cWHQ



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2021-2022

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Pharm D

Batch

2021-2027

Sem/Year

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Pharmaceutical Microbiology Theory

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