

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

NAAC CRITERIA 2.3.2 TEACHERS USES ICT ENABLED TOOLS FOR EFFECTIVE TEACHING AND LEARNING PROCESS INCLUDING ONLINE E-RESOURCES

DEPARTMENT OF PHARMACEUTICAL ANALYSIS

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Dr K Krishnakumar	Pharmaceutical Chemistry	Pharm D	III Year-Medicinal Chemistry	1. Introduction to heterocyclic chemistry 2. Antitubercular agents 3. Drugs acting on CHF 4. Antibiotics
		M Pharm	II semester	1. QSAR

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Anatt Treesa	Pharmaceutical Chemistry	M Pharm	II Semester-Computer Aided Drug Design	QSAR-History and development Hansch and Free Wilson analysis
Grace Shaji Chittilappilly				CADD-Introduction & QSAR

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Greeshma Giridharan				Prediction and analysis of ADMET properties of new molecules
Greeshma Vincent				3D QSAR
Linta Anto				Pharmacophore mapping and modeling
Swathy P S				Molecular and Quantum mechanics in drug design
Veena K S				Homology modeling

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Dr Kavitha M. P	Pharmaceutical Analysis	PharmD	III Year	<ul style="list-style-type: none"> • Polarimetry, • Equipment validation, • X-Ray Spectroscopy, • NMR, • Gel filtration, • HPTLC, • Analytical method validation, • ESR, • Gel electrophoresis
		M. Pharm	2 nd sem	<ul style="list-style-type: none"> • Theory, Instrumentation-HPLC, • Sample preparation-HPLC, • HPTLC,

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				<ul style="list-style-type: none"> • SFC, • Capillary Electrophoresis, • Affinity chromatography, • GC-theory, Instrumentation, Detectors, • GC Derivatization, • CE, • Spin-spin coupling and coupling constant, • FT-NMR, Interpretation of mass spectra, • Instrumentation and quantum number in NMR, • LC-MS hyphenation, • Enantioselective HPLC Analysis, • Nano liquid chromatography, • UPLC • DART MS, • C13 NMR, 2D & 1D NMR, • Interpretation NMR, Shift reagents, • MS Interpretation • FT-NMR • CE-MS Hyphenation, • CE-Method development, • Crown ethers, • Ion Pair chromatography, • Practical Aspects of preparative HPLC, • Tandem MS, • Chiral HPLC, • Nano HPLC
		B. Pharm	VII Semester	<ul style="list-style-type: none"> • UV Introduction, • UV Theory and B-L Law, • UV instrumentation, • Detectors,

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				• Applications
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr Kavitha M. P	Pharmaceutical Analysis	Pharm D	III yr	<ul style="list-style-type: none"> • Polarimetry, • Equipment validation, • X-Ray Spectroscopy, • NMR, • Gel filtration, • HPTLC, • Analytical method validation, • ESR, • Gel electrophoresis
		M. Pharm	2 nd sem	<ul style="list-style-type: none"> • Sample preparation for HPLC Analysis • HPLC • HPLC-Detectors • GC • GC-Detectors • GC derivatization and application • MS • Affinity chromatography • SEC • CE • HPTLC
		B.Pharm	VII sem	<ul style="list-style-type: none"> • UVIntroduction, • UV Theory and B-L Law,

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				<ul style="list-style-type: none"> • UV instrumentation, • Detectors, Applications
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LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Dr Kavitha M. P	Pharmaceutical Analysis	M. Pharm	2 nd sem	<ul style="list-style-type: none"> • AIA • Quantum numbers and instrumentation in NMR • LC-MS Hyphenation • Chemical Shift • C13 NMR, 1D, 2D NMR • Instrumentation and applications of preparative HPLC • SFC • Ion exchange chromatography • MBT • sample preparation techniques for bioanalysis • Factors affecting drug bioavailability • <i>In-vitro</i> approaches for met I'd • <i>In-vitro</i>:dissolution and drug release testing • Bioavailability and bioequivalence studies • Study design • Drug permeability studies • • QA & QC

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				<ul style="list-style-type: none">• ICH guideline with emphasis to QSEM and Q series guidelines• GMP• Quality assurance• Protocol for conduct of non-clinical testing control on animal house, report preparation and documentation.• cGMP guidelines• Premises• Good warehouse practices <p>HCA</p> <ul style="list-style-type: none">• Indian standards for sampling and testing of hair cosmetics and skin creams• Herbal drug standardization• Indian standard for sampling and testing of lipstick, baby product, skin care products, personal hygiene, dental products• Study of quality of raw materials and general methods of Analysis of raw materials used in cosmetic manufacture as per BIS.• Validation of herbal therapy• Herbal drugs and patent• Adulterant screening using modern analytical techniques
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/ Semester	Topic
Dr Kavitha M. P	Pharmaceutical Analysis	Pharmaceutical analysis II	B. Pharm	IV Year	<ul style="list-style-type: none"> • Revisions and test papers on NMR, • Mass, • UV, • Flame Photometry, • AAS, • Potentiometry, • Conductometry, • Amperometry, • Nephelometry • HPTLC, • X-Ray, • IR • GLP • Validations • Fluorimetry • Thermal methods • HPLC • Column, Paper, Thin layer Chromatography • Polarography
		Pharmaceutical Analysis	PharmD	III Year	<ul style="list-style-type: none"> • ESR, • NMR, • Validation Procedures, • TQM,

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					<ul style="list-style-type: none"> • Gel Electrophoresis, • Polarimetry, • GC Detectors
		Advanced Instrumental Analysis	M. Pharm	II Sem	<ul style="list-style-type: none"> • LCMS, • DART MS, • C13NMR, • 2D&1DNMR, • Interpretation NMR, • Shift reagents, • MS Interpretation, • FT-NMR, • CE-MS Hyphenation, • CE-Method development, Crown ethers, • Ion Pair chromatography, Practical Aspects of preparative HPLC, • Tandem MS, • Chiral HPLC, • Nano HPLC,

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Name of the	Year/Semester	Topic
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		course		
Dr. David Paul	Pharmaceutical Analysis	Pharm D	1 st Year	Gravimetry
				Medicinal gases
				Acidifiers
				Antacids
				Cathartics
				Electrolyte replenishers
				Essential Trace elements
				Pharmaceutical aids
				Dental Products
				Radio Pharmaceuticals
				Miscellaneous compounds
				Revisions

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. David Paul	Pharmaceutical	M. Pharm	2 nd Semester	Permeability: In-vitro, in-situ and In-vivo

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	Analysis			methods Transport models
				Alternative Methods of Dissolution Testing
				Solubility: Experimental methods.
				Biopharmaceutics Classification System.
				In-vitro / in-vivo approaches, protocols and sample preparation.
				Microsomal approaches (Rat liver microsomes (RLM) and Human liver microsomes (HLM) in Met –ID. Regulatory perspectives
				Bioequivalence Studies, Design and Evaluation of Bioequivalence Studies,
				Study Designs, Crossover Study Designs
				Cytochrome P450- based drug interactions, Drug interactions linked to transporters. Microsomal assays Toxicokinetics-Toxicokinetic evaluation in preclinical studies, Importance and applications of toxicokinetic studies. LC-MS in bioactivity screening and proteomics.

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				Principles and applications of cell viability assays (MTT assays), Principles and applications of flow cytometry.
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Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. David Paul	Pharmaceutical Chemistry	M. Pharm	2 nd Semester	UV and IR spectroscopy
				Radioimmuno assay of digitalis + insulin.
				NMR spectroscopy
				Mass fragmentation and its rules
				GC-MS +GC-AAS
				LC-MS + LC-FTIR
				High Performance Thin Layer chromatography
				Super critical fluid chromatography
				Ion Chromatography
				Ion- Exclusion Chromatography
				Flash chromatography
DSC, DTA and TGA				

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				Raman Spectroscopy
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. David Paul	Pharmaceutical Analysis	Pharm D	1 st Year	Gravimetry
				Medicinal gases
				Acidifiers
				Antacids
				Cathartics
				Electrolyte replenishers
				Essential Trace elements
				Pharmaceutical aids
				Dental Products
				Radio Pharmaceuticals
				Miscellaneous compounds
				Revisions

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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE HANGOUT

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. David Paul	Pharmaceutical Analysis	M. Pharm	2 nd Semester	Permeability: In-vitro, in-situ and In-vivo methods Transport models
				Alternative Methods of Dissolution Testing
				Solubility: Experimental methods.
				Biopharmaceutics Classification System.
				In-vitro / in-vivo approaches, protocols and sample preparation.
				Microsomal approaches (Rat liver microsomes (RLM) and Human liver microsomes (HLM) in Met –ID. Regulatory perspectives
				Bioequivalence Studies, Design and Evaluation of Bioequivalence Studies,
				Study Designs, Crossover Study Designs

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				<p>Cytochrome P450- based drug interactions, Drug interactions linked to transporters. Microsomal assays Toxicokinetics-Toxicokinetic evaluation in preclinical studies, Importance and applications of toxicokinetic studies. LC-MS in bioactivity screening and proteomics.</p>
				<p>Principles and applications of cell viability assays (MTT assays), Principles and applications of flow cytometry.</p>

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. David Paul	Pharmaceutical Chemistry	M. Pharm	2 nd Semester	UV and IR spectroscopy
				Radioimmuno assay of digitalis + insulin.
				NMR spectroscopy
				Mass fragmentation and its rules
				GC-MS +GC-AAS
				LC-MS + LC-FTIR
				High Performance Thin Layer chromatography
				Super critical fluid chromatography

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				Ion Chromatography
				Ion- Exclusion Chromatography
				Flash chromatography
				DSC, DTA and TGA
				Raman Spectroscopy

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Sanu Sijana Sharon		B Pharm	4 th Year	Project Presentation

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic

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Aneena George M	Pharmaceutical Analysis	Quality Control & Quality Assurance	M. Pharm	II Semester	Concept and evolution of Q.C & Q.A, GLP, cGMP guidelines according to schedule M & USFDA, analysis of raw materials , finishes products, packaging materials, documents in pharmaceutical Industries, manufacturing operations and control.
		Pharmaceutical Quality Assurance	B. Pharm	VI Semester	Assurance and quality management concept, TQM, ICH guidelines, ISO 9000 and 14000, NABL Accreditation, Organization and personal, equipments & raw materials, warehousing, GLP, complaints, document maintenance in pharmaceutical industries, validation, Q.C testes for packaging materials.
		Pharmaceutical Analysis	Pharm. D	III Year	Conductometric titrations theory, conductivity cell and Applications

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the	Year/Semester	Title of PPT
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		course		
Aneena George M	Pharmaceutical Analysis	M. Pharm	II Semester	Overview of ICH Guidelines – QSEM, Developing specification (ICH Q6 and Q3) Purchase specification, Control of contamination and Good Warehousing Practice, Sterile products aseptic process control, Master Formula Record Batch Formula Record, Specifications and maintenance of stores for raw materials, In process quality control, personnel responsibilities, training, hygiene and personal records.
		B. Pharm	VI Semester	Organization & personal, Equipment selection and maintenance, Q.C test for containers, ISO 9000 & 14000, types of packaging materials, complaints and evaluation of complaints, returned goods, waste disposal and recall, documentation, Sop and quality audit, quality review and quality documentation, distribution records, validation, calibration and qualification, analytical method validation, calibration of pH meter, personal training, Qualification of U-V visible spectrophotometer, sterile area
		Pharm. D	III Year	Conductometry theory, titrations and conductivity cells

LIST OF STUDENTS SEMINARS THROUGH ZOOM

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Name of student	Department	Name of the course	Year/Semester	Title of seminar
Aswathi K S	Pharmaceutical Analysis	M. Pharm	II Semester	ICH Guideline with special emphasis to QSEM and Q series
Anjaly P Jhony	Pharmaceutical Analysis	M. Pharm	II Semester	GMP
Beryl Abraham	Pharmaceutical Analysis	M. Pharm	II Semester	Quality assurance unit
Maneesha Dinilkumar	Pharmaceutical Analysis	M. Pharm	II Semester	Protocol for conducting non-clinical testing
Mariya	Pharmaceutical Analysis	M. Pharm	II Semester	cGMP
Roshitha K R	Pharmaceutical Analysis	M. Pharm	II Semester	Premises
Sujith Unnikrishnan	Pharmaceutical Analysis	M. Pharm	II Semester	Good Ware Housing Practices

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Geetha Elias	Pharmaceutical Chemistry	B. Pharm	II Semester	Enzyme1 Enzyme2 Enzyme 3, Regulation of Enzyme Activity, Coenzymes 1, Coenzymes 2, Isoenzymes & Uses of Enzymes & Isoenzymes, Bioenergetics 1, Bioenergetics 2, Bioenergetics 3, Introduction to Carbohydrate Metabolism, Glycolysis 1, Glycolysis 2, Krebs Cycle, Gluconeogenesis, Gluconeogenesis Chemical Structures, Glycogen Metabolism 1, Glycogen Metabolism2, Glycogen Storage Diseases, c AMP, Hormonal Regulation of Blood Glucose Level, Diabetes Mellitus, HMP Shunt & its Significance, ETC, Inhibitors and Uncouplers of ETC, Chemiosmotic Theory, Transamination Reactions, Deamination & Decarboxylation, Urea Cycle & Its Disorders, Metabolism of Phenylalanine& Tyrosine, Disorders of Phenylalanine metabolism, Biosynthesis of Catecholamines, Biosynthesis of 5HT, Melatonin, Catabolism of Heme & jaundice
		B. Pharm	IV Semester	Geometric Isomerism1, Geometric Isomerism 2, Geometric Isomerism 4, Geometric Isomerism 4, Stereoselective & Stereospecific Reactions
		M. Pharm	II Semester	Phase transfer Catalysis, Biocatalysts in Organic Synthesis, Biotransformations in Drug Synthesis, Photochemistry Basic

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				Principles 1, Photochemistry Basic Principles 2, Photoaddition Reactions, Photo Oxidation Reactions, Photofragmentation Reactions, Pericyclic Reactions- Cycloaddition 1, Pericyclic Reactions- Cycloaddition 2, Woodward Hoffmann Rules, Electrocyclic Reactions, Sigmatropic Rearrangement, Types of Catalysis, Homogeneous Catalysts, Heterogeneous Catalysts, Heterogeneous Catalysts- deactivation and regeneration, Industrial & Pharmaceutical Applications of Heterogeneous catalysts, Chiral Ligands & Chiral Induction, Applications of PTC, Chemistry of Peptides, Coupling Reagents in SPPS
		Pharm. D	I year	General Reactions of Alkenes 1, General Reactions of Alkenes 2, Evidence of E2 mechanism- Absence of H- exchange, Cycloaddition reactions of alkenes, Williamson's Ether Synthesis, Electrophilic Addition; Rearrangement, Fries Rearrangement
		Pharm. D	III year	QSAR 1, QSAR 2, Antisense Drugs

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Geetha Elias	Pharmaceutical Chemistry	M. Pharm	II Semester	Pericyclic Reactions
		B. Pharm	III Semester	Reactions of Benzene
		Pharm. D	III year	Prodrugs 1, Prodrugs 2, Prodrugs 3

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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Name of the course	Year/Semester	Topic
Geetha Elias	Pharmaceutical Chemistry	B. Pharm	II Semester	Glycogen Storage Diseases, cAMP, Hormonal Regulation of Blood Glucose Levels, Diabetes mellitus, HMP Shunt & its significance, ETC
		M. Pharm	II Semester	Heterogeneous Catalysts, Heterogeneous Catalysts-deactivation & regeneration, Industrial & Pharmaceutical Applications of heterogeneous catalysts.

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
1.Anatt Treesa	Pharmaceutical Chemistry	M. Pharm	II Semester	AOC II: Ultrasound assisted reactions and Continuous flow reactors
2.Grace Shaji Chittilappilly	Pharmaceutical Chemistry	M. Pharm	II Semester	AOC II: Green Chemistry: a) Introduction, principles of green chemistry b) Microwave assisted reactions
3.Greeshma	Pharmaceutical	M. Pharm	II Semester	AOC II: Photochemical Reactions

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Giridharan	Chemistry			Basic principles of photochemical reactions. Photo-oxidation, photo-addition and photo fragmentation
4.Greeshma Vincent	Pharmaceutical Chemistry	M. Pharm	II Semester	AOC II: Catalysis Heterogeneous catalysis
5.Linta Anto	Pharmaceutical Chemistry	M. Pharm	II Semester	AOC II: Stereochemistry & Asymmetric Synthesis
6.Swathy P S	Pharmaceutical Chemistry	M. Pharm	II Semester	AOC II: Basic concepts in stereochemistry
7.Veena K S	Pharmaceutical Chemistry	M. Pharm	II Semester	AOC II: Chemistry of peptides

8. LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Geetha Elias	Pharmaceutical Chemistry	Biochemistry	B. Pharm	II Semester	Enzyme1 Enzyme2 Enzyme 3, Regulation of Enzyme Activity, Coenzymes 1, Coenzymes 2, Isoenzymes & Uses of Enzymes & Isoenzymes, Bioenergetics 1, Bioenergetics 2, Bioenergetics 3, Introduction to Carbohydrate

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					Metabolism, Glycolysis 1, Glycolysis 2, Krebs Cycle, Gluconeogenesis, Gluconeogenesis Chemical Structures, Glycogen Metabolism 1, Glycogen Metabolism2, Glycogen Storage Diseases, c AMP, Hormonal Regulation of Blood Glucose Level, Diabetes Mellitus, HMP Shunt & its Significance, ETC, Inhibitors and Uncouplers of ETC, Chemiosmotic Theory, Transamination Reactions, Deamination & Decarboxylation, Urea Cycle & Its Disorders, Metabolism of Phenylalanine& Tyrosine, Disorders of Phenylalanine metabolism, Biosynthesis of Catecholamines, Biosynthesis of 5HT, Melatonin, Catabolism of Heme & jaundice
		POC III	B. Pharm	IV Semester	Geometric Isomerism1, Geometric Isomerism 2, Geometric Isomerism 3, Geometric Isomerism 4, Stereoselective &Stereospecific Reactions

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		AOC II	M. Pharm	II Semester	Phase transfer Catalysis, Biocatalysts in Organic Synthesis, Biotransformation's in Drug Synthesis, Photochemistry Basic Principles 1, Photochemistry Basic Principles 2, Photoaddition Reactions, Photo Oxidation Reactions, Photofragmentation Reactions, Pericyclic Reactions- Cycloaddition 1, Pericyclic Reactions- Cycloaddition 2, Woodward Hoffmann Rules, Electrocyclic Reactions, Sigmatropic Rearrangement, Types of Catalysis, Homogeneous Catalysts, Heterogeneous Catalysts, Heterogeneous Catalysts- deactivation and regeneration, Industrial & Pharmaceutical Applications of Heterogeneous catalysts, Chiral Ligands & Chiral Induction, Applications of PTC, Chemistry of Peptides, Coupling Reagents in SPPS
		POC	Pharm D	I year	General Reactions of Alkenes 1, General Reactions of Alkenes 2, Evidence of E2 mechanism-

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					Absence of H- exchange, Cycloaddition reactions of alkenes, Williamson's Ether Synthesis, Electrophilic Addition; Rearrangement, Fries Rearrangement
		Medicinal Chemistry	Pharm D (2017)	III year	QSAR 1, QSAR 2, Antisense Drugs
		POC II	B. Pharm	III Semester	Benzene and its Derivatives- Introduction & Nomenclature Str. Elucidation of Benzene
					Evidences for stability of Benzene, Resonance and aromaticity, Reactions of Benzene-halogenation, nitration, sulphonation, Friedel Crafts alkylation and acylation, Str.& uses of DDT, saccharine, BHC, Chloramine, Effect of substituents on reactivity of monosubstituted benzene
		Medicinal Chemistry	Pharm D	III year	Prodrugs1 -Definition& classification, Prodrugs 2 - Functional groups amenable to prodrug design, Prodrugs 3 - applications

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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Meena Chandran	Pharmaceutical Chemistry	Pharm D	I Year-Medicinal Biochemistry	<ol style="list-style-type: none"> 1. TCA cycle 2. Glycogenesis 3. Glycogenolysis 4. Galactose & Glucose tolerance test 5. Ketogenesis & Ketolysis 6. Cholesterol biosynthesis 7. Porphyria 8. Bile pigment production 9. Protein turnover 10. Nitrogen balance 11. Mutations 12. Genetic code 13. Purine ribonucleotide synthesis 14. Degradation of purine ribonucleotides 15. Pyrimidine ribonucleotide synthesis 16. Degradation of pyrimidine ribonucleotides 17. DNA replication 18. DNA replication in eukayotes 19. Functions of liver 20. LFT- Classification 21. Determination of bilirubin 22. Estimation of serum enzymes derived from liver 23. LFT- Urobilinogen and Bromsulphthalein test
		Pharm D	III Year-Medicinal Chemistry	<ol style="list-style-type: none"> 2. Pharmaceutical applications of prodrug 3. Pharmacokinetic applications of prodrug 4. Computer aided drug design

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				<ol style="list-style-type: none"> 5. Molecular modeling 6. Combinatorial Chemistry
		B Pharm	IV year- Pharmaceutical Chemistry V	<ol style="list-style-type: none"> 1. QSAR introduction 2. QSAR-lipophilic parameters QSAR-electronic and steric parameters
		B Pharm	VI Semester- Medicinal Chemistry III	<ol style="list-style-type: none"> 1. Chemical degradation of Penicillins 2. Prodrug-Introduction 3. Prodrug-Classification 4. Pharmaceutical applications of prodrug 5. Pharmacokinetic applications of prodrug 6. Antiprotozoal agents 7. Antiviral and AntiHIV agents-Introduction 8. Antiviral agents-Classification 9. Antiviral agents 10. AntiHIV agents 11. Drug design-Introduction 12. CADD techniques 13. QSAR introduction 14. QSAR-lipophilic parameters 15. QSAR-electronic and steric parameters 16. Hansch analysis 17. Molecular docking 18. Combinatorial Chemistry
		B Pharm	IV Semester- Medicinal Chemistry I	<ol style="list-style-type: none"> 1. Drug metabolism- Introduction 2. Drug metabolism-Classification 3. Drug metabolism-Oxidation reactions 4. Drug metabolism-Phase I Oxidation reactions part 2 5. Drug metabolism-Reduction & Hydrolysis 6. Drug metabolism—Phase II reactions part I 7. Drug metabolism—Phase II reactions part II 8. Factors affecting drug metabolism

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		M Pharm	II Semester-Computer Aided Drug Design	<ol style="list-style-type: none"> 1. QSAR introduction 2. QSAR-lipophilic parameters 3. QSAR-electronic and steric parameters 4. Statistical methods used in QSAR 5. Fragment based drug design- methods for fragment screening 6. Fragment based drug design steps 7. Generation of 3D structure of protein part-1 8. Generation of 3D structure of protein part-2
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LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of the Video	Link of the Video
Meena Chandran	Pharmaceutical Chemistry	Pharm D	I Year-Medicinal Biochemistry	<ol style="list-style-type: none"> 1. Protein synthesis 2. DNA replication 	<ol style="list-style-type: none"> 1. https://www.youtube.com/watch?v=TEQMeP9GG6M 2. https://www.youtube.com/watch?v=O5oQLDteYtM 3. https://www.youtube.com/watch?v=KZBljAM6B1s 4. https://www.youtube.com/watch?v=Ikq9AcBcohA

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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Meena Chandran	Pharmaceutical Chemistry	Pharm D	I Year-Medicinal Biochemistry	<ol style="list-style-type: none"> 1. Nucleic acids, nucleotides and nucleosides 2. Purine ribonucleotide synthesis 3. Degradation of purine ribonucleotides 4. Pyrimidine ribonucleotide synthesis 5. Degradation of pyrimidine ribonucleotides 6. DNA replication 7. DNA replication in eukayotes 8. Protein synthesis 9. Inhibitors of protein synthesis 10. Glycolysis 11. TCA cycle
		Pharm D	III Year-Medicinal Chemistry	<ol style="list-style-type: none"> 1. QSAR introduction 2. QSAR-lipophilic parameters 3. QSAR-electronic and steric parameters 4. Computer aided drug design 5. Molecular modeling 6. Combinatorial Chemistry
		B Pharm	VI Semester-Medicinal Chemistry III	<ol style="list-style-type: none"> 1. Drug design-Introduction 2. CADD techniques 3. QSAR introduction 4. QSAR-lipophilic parameters 5. QSAR-electronic and steric parameters 6. Combinatorial Chemistry

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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE HANGOUT

Name of staff	Department	Name of the course	Year/Semester	Topic
Meena Chandran	Pharmaceutical Chemistry	M Pharm	II Semester- Computer Aided Drug Design	<ol style="list-style-type: none">1. QSAR introduction2. QSAR-lipophilic parameters3. QSAR-electronic and steric parameters

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Name of the course	Year/Semester	Topic
Meena Chandran	Pharmaceutical Chemistry	Pharm D	I-Medicinal Biochemistry	<ol style="list-style-type: none">1. Role of clinical chemistry2. Kidney function tests3. Liver function tests4. Regulation of TCA cycle, glycogenesis & Glycogenolysis
		B Pharm & B Pharm Lateral entry	VI Semester- Medicinal Chemistry III & IV Semester- Medicinal Chemistry III	<ol style="list-style-type: none">1. Antiviral and AntiHIV agents- Introduction2. Antiviral agents-Classification3. Antiviral agents4. AntiHIV agents

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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Meena Chandran	Pharmaceutical Chemistry	Pharm D	I Year- Medicinal Biochemistry	<ol style="list-style-type: none">1. TCA cycle2. Glycogenesis3. Glycogenolysis4. Regulation of TCA cycle, glycogenesis & Glycogenolysis5. Diabetes mellitus6. Galactose & Glucose tolerance test7. Ketogenesis & Ketolysis8. Cholesterol biosynthesis9. Porphyria10. Bile pigment production11. Protein turnover12. Nitrogen balance13. Mutations14. Genetic code15. Purine ribonucleotide synthesis16. Degradation of purine ribonucleotides17. Pyrimidine ribonucleotide synthesis18. Degradation of pyrimidine ribonucleotides19. DNA replication20. DNA replication in eukaryotes21. Role of clinical chemistry22. KFT- Clearance test23. Functions of liver24. LFT- Classification

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				25. Determination of bilirubin 26. Estimation of serum enzymes derived from liver 27. LFT- Urobilinogen and Bromosulphthalein test
		Pharm D	III Year- Medicinal Chemistry	1. Pharmaceutical applications of prodrug 2. Pharmacokinetic applications of prodrug 3. Computer aided drug design 4. Molecular modeling
		B Pharm	IV year- Pharmaceutical Chemistry V	1. QSAR introduction 2. QSAR-lipophilic parameters 3. QSAR-electronic and steric parameters
		B Pharm	VI Semester- Medicinal Chemistry III	1. Chemical degradation of Penicillins 2. Prodrug-Introduction 3. Prodrug-Classification 4. Pharmaceutical applications of prodrug 5. Pharmacokinetic applications of prodrug 6. Antiprotozoal agents 7. Antiviral and AntiHIV agents- Introduction 8. Antiviral agents-Classification 9. Antiviral agents 10. AntiHIV agents 11. Anthelmintics 12. Drug design-Introduction 13. CADD techniques 14. QSAR introduction 15. QSAR-lipophilic parameters 16. QSAR-electronic and steric parameters 17. Hansch analysis 18. Molecular docking

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		B Pharm	IV Semester- Medicinal Chemistry I	<ol style="list-style-type: none"> 1. Drug metabolism- Introduction 2. Drug metabolism-Classification 3. Drug metabolism-Oxidation reactions 4. Drug metabolism-Phase I Oxidation reactions part 2 5. Drug metabolism-Reduction & Hydrolysis 6. Drug metabolism—Phase II reactions part I 7. Drug metabolism—Phase II reactions part II 8. Factors affecting drug metabolism 9. Nervous system-Introduction 10. Sympathomimetic agents 11. Sympatholytic-Classification and alpha adrenergic blockers 12. Beta blockers 13. Synthesis of Phenylephrine & Tolazoline 14. SAR of parasymphomimetics/Cholinergic agents
		M Pharm	II Semester- Computer Aided Drug Design	<ol style="list-style-type: none"> 1. QSAR introduction 2. QSAR-lipophilic parameters 3. QSAR-electronic and steric parameters 4. Hansch analysis 5. Freewilson analysis 6. QSAR-Mixed approach model & analysis 7. 3D QSAR 8. Advantages and disadvantages of 3D QSAR

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				9. Statistical methods used in QSAR 10. Fragment based drug design- methods for fragment screening 11. Fragment based drug design steps 12. Generation of 3D structure of protein part-1 13. Generation of 3D structure of protein part-2 14. Virtual Screening 15. Concept, identification, modeling mapping and conformational search of mapping of pharmacophores
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LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Anatt Treesa	Pharmaceutical Chemistry	M Pharm	II Semester- Computer Aided Drug Design	QSAR-History and development Hansch and Free Wilson analysis
Grace Shaji Chittilappilly				CADD-Introduction & QSAR
Greeshma Giridharan				Prediction and analysis of ADMET properties of new molecules
Greeshma Vincent				3D QSAR

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Linta Anto				Pharmacophore mapping and modeling
Swathy P S				Molecular and Quantum mechanics in drug design
Veena K S				Homology modeling

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of the Video	Link of the Video
Silvipriya K S	Pharmaceutical Chemistry	M. Pharm	II Semester	Docking tutorial	https://www.youtube.com/watch?v=zxEljepiIB0
				Denovo drug design	https://www.slideshare.net/SomasekharGupta/denovo-drug-design
				Denovo drug design	https://www.slideshare.net/SomasekharGupta/denovo-drug-design
				Molecular mechanics & quantum mechanics	https://www.slideshare.net/RAKESHJAGTAP2/molecular-mechanics-and-quantum-mechanics
				Introduction to CADD-Docking concepts.	https://www.youtube.com/watch?v=7JH2L14ljps

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

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Name of staff	Department	Name of the course	Year/Semester	Topic
Silvipriya K S	Pharmaceutical Chemistry	B. Pharm	II Semester	Alcohols

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Swathy P S	Pharmaceutical Chemistry	M.Pharm	II Semester	1.Basic concepts of Stereochemistry. 2.Molecular & quantum mechanics.
Anatt Treesa Mathew	Pharmaceutical Chemistry	M.Pharm	II Semester	Ultrasound assisted reactions & continuous flow reactors.
Grace Shaji Chittilappilly	Pharmaceutical Chemistry	M.Pharm	II Semester	Green Chemistry.
Greeshma Giridharan	Pharmaceutical Chemistry	M.Pharm	II Semester	Prediction & analysis of ADMET properties of new molecules.
Linta Anto	Pharmaceutical Chemistry	M.Pharm	II Semester	1.Asymmetric synthesis. 2.Pharmacophore mapping.

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Mrs Rizvana	Department of Pharmaceutical Chemistry	Pharmaceutical Organic Chemistry	Pharm D	I Year	Reduction
		Pharmaceutical Organic Chemistry	Pharm D	I Year	Oxidation
		Pharmaceutical Organic Chemistry	Pharm D	I Year	Named reaction and its mechanism
		Pharmaceutical Organic Chemistry	Pharm D	I Year	Nomenclature of phenols and dienes
		Pharmaceutical Organic Chemistry	Pharm D	I Year	Study of official compounds
		Medicinal Chemistry-I	B. Pharm	IV semester	Antipsychotics
		Medicinal Chemistry-I	B. Pharm	IV semester	Anticonvulsants
		Medicinal	B. Pharm	IV semester	Sedatives and hypnotics

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		Chemistry-I			
		Medicinal Chemistry-I	B. Pharm	IV semester	General anesthetics
		Medicinal Chemistry-I	B. Pharm	IV semester	Narcotic and non-narcotic drugs
		Medicinal Chemistry-I	B. Pharm	IV semester	Anti inflammatory drugs
		Medicinal Chemistry-I	B. Pharm	IV semester	Cholinergic drugs
		Medicinal Chemistry-I	B. Pharm	IV semester	Physiological parameters affecting biological action
		Pharmaceutical Organic Chemistry III	B. Pharm	IV semester	Optical isomerism

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
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Mrs.Rizvana	Department of Pharmaceutical Chemistry	B.Pharm	IV semester	Introduction to cholinergic nervous system
		B.Pharm	IV semester	Physiological parameters of drugs affecting biological action
		B.Pharm	IV semester	DL system of nomenclature of optical isomers
		B.Pharm	IV semester	Biosynthesis and catabolism of acetylcholine
		B.Pharm	IV semester	Nicotinic receptors and its distribution
		B.Pharm	IV semester	Muscarinic receptors and its distribution
		B.Pharm	IV semester	RS System of Nomenclature and Sequence rules
		B.Pharm	IV semester	Racemic modification and resolution of mixtures

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of the Video	Link of the Video
Mrs.Rizvana	Department of Pharmaceutical Chemistry	Pharm D	Ist Year	Claisen condensation	https://youtu.be/1EhOOsrAvFO
		Pharm D	Ist Year	Cannizzaro reaction	https://youtu.be/S2n3lO_RsNo

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		Pharm D	Ist Year	Knoevenagel reaction	https://youtu.be/z2cN67O7yjs
		Pharm D	Ist Year	Crossed Cannizzaro reaction	https://youtu.be/G59zg2UT1xU

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Mrs. Rizvana	Department of Pharmaceutical Chemistry	Pharm D	IIIrd Year	Local anti-infective agents
		Pharm D	IIIrd Year	Preservatives

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Name of the course	Year/Semester	Topic
Mrs. Rizvana	Department of Pharmaceutical Chemistry	Pharm D	Ist Year	Study of official compounds - Lactic acid, aspirin, ethylene diamine dihydrate, ethylene chloride
		B.Pharm	IVth sem	Parasympathomimetic agents - Directly acting cholinergic agents
		Pharm D	IIIrd Year	Insulin and its preparation

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Mariya Davis	Pharmaceutical Chemistry	B.Pharm	2 nd Semester	Aminoacids
				Proteins
				Identification of Proteins
				Lipids
				Prostaglandins
				Disorders of lipid metabolism
				Beta-oxidation of fatty acids
				Ketone bodies
				De novo synthesis of fatty acids
				Cholesterol
				Nucleic acids
				RNA
				DNA

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				Biosynthesis of nucleotides
				Degrdsation of purine nucleotides
				DNA Replication
				Transcription
				Genetic Code
				Translation
		B.Pharm	4 th Semester	Purine
				Indole
				Basicity of Pyrrole and Pyridine
		B.Pharm	6 th Semester	Aminoglycosides
				Antifungal agents
				Antimalarial agents
				Beta-lactamase Enzyme Inhibitors
				Cephalosporins
				Macrolide antibiotics
				Tetracyclines
				Miscellaneous antibiotics

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				Pharmacophore Modelling
		Pharm.D	1 st Year	Inhibitors of Oxidative Phosphorylation
				Nucleic acids
				DNA Damages
				DNA Repair
				ELISA
				RIA
				Theory of Resonance
		M.Pharm	2 nd Semester	Fermentation of Statins
		B.Pharm	3 rd Semester	Fats and Oils
				Naphthalene
				Phenanthrene
				Anthracene
				Diphenylmethane
				Triphenylmethane

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the	Year/Semester	Title of the	Link of the Video
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		course		Video	
Mariya Davis	Pharmaceutical Chemistry	B.Pharm	2 nd Semester	DNA Replication	https://youtu.be/TNkWgcFPHqw
				Transcription	https://youtu.be/_Zyb8bpGMR0
				Translation	https://youtu.be/5bLEDd-PSTQ

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Mariya Davis	Pharmaceutical Chemistry	M.Pharm	2 nd Semester	Metal hydrides
		B.Pharm	3 rd Semester	Chemical reactions of fats and oils
				Analytical Constants of fats and oils

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Anatt Treesa Mathew	Pharmaceutical Chemistry	M.Pharm	2 nd Sem	Extraction
Grace Shaji				Process Chemistry

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Greeshma Giridharan				Reduction
Greeshma Vincent				Evaporation
Linta Anto				Crystallization
Swathy P S				MSDS and PPE
Veena K S				Halogenation

LIST OF ASSIGNMENTS GIVEN BY STAFF TO STUDENTS

Name of staff	Department	Name of the course	Year/Semester	Assignment Topic
Mariya Davis	Pharmaceutical Chemistry	B.Pharm	2 nd Semester	Classification of aminoacids
				Structural organization of proteins
		B.Pharm	4 th Semester	Indole
				Quinoline and Isoquinoline
				Pyridine
				Acridine
		B.Pharm	6 th Semester	Classification of Antimalarial drugs

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				SAR of 4-aminoquinolines and synthesis of chloroquine
		Pharm.D	1 st Year	Bimolecular Elimination Reactions
				Unimolecular Elimination Reactions
				Allyl radical and allyl cation as resonance hydrid
				Inhibitors of oxidative phosphorylation
				Introduction to nucleic acids
		M.Pharm	2 nd Semester	Fermentation of Penicillin
				Fermentation of Vitamin B2 and Streptomycin
				Fermentation of Lovastatin
				Azeotropic distillation
				Vaccum Filtration
				Centrifugal Filtration
				Soxhlet and Counter Current Extraction
				Oxidation
				Ozonolysis

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				Homogenous reduction
				MSDS
				PPE
				Fire Extinguisher
				Validation

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Mariya Davis	Pharmaceutical Chemistry	Biochemistry	B.Pharm	2 nd Semester	Aminoacids
					Proteins
					Identification of Proteins
					Lipids
					Prostaglandins
					Disorders of lipid metabolism
					Beta-oxidation of fatty acids
					Ketone bodies

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					De novo synthesis of fatty acids
					Cholesterol
					Nucleic acids
					RNA
					DNA
					Biosynthesis of nucleotides
					Degradation of purine nucleotides
					DNA Replication
					Transcription
					Genetic Code
					Translation
		POC III	B.Pharm	4 th Semester	Purine
					Indole
					Basicity of Pyrrole and Pyridine
		Medicinal Chemistry III	B.Pharm	6 th Semester	Aminoglycosides
					Antifungal agents
					Antimalarial agents

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					Beta-lactamase Enzyme Inhibitors
					Cephalosporins
					Macrolide antibiotics
					Tetracyclines
					Miscellaneous antibiotics
					Pharmacophore Modelling
		Medicinal Biochemistry	Pharm.D	1 st Year	Inhibitors of Oxidative Phosphorylation
					Nucleic acids
					DNA Damages
					DNA Repair
					ELISA
					RIA
		POC	Pharm.D	1 st Year	Elimination Reactions
					Theory of Resonance
					Alicyclic Compounds
		Pharmaceutical Process Chemistry	M.Pharm	2 nd Semester	Fermentation
					Distillation

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					Filteration
					Extraction
					Halogenation
					Oxidation
					Ozonolysis
					Nitration
					Reduction
					Evaporation
					MSDS
					PPE
					Fire Hazards
					Types of Fire
					Fire Extinguishers
					Effluents and it's management
					ISO 14001
					API
					Hazard Labels

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					OHSAS 18001
					Crystallization
					Process Chemistry
					RPKA
					Validation
					Metal hydrides
		POC II	B.Pharm	3 rd Semester	Chemical Reactions of fats and Oils
					Analytical Constants of fats and Oils
					Polynuclear hydrocarbons

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Anna Joyson	Pharmaceutical Chemistry	Medicinal chemistry	5 th sem B.Pharm	Detailed study of anti angina drugs includes vasodilators, calcium channel blockers, anti hypertensive agents and diuretics
		Pharmaceutical inorganic chemistry	1st Sem B.Pharm	Acid and base theorys, Indian pharmacopoeia, sources of impurities, limit test
		Pharmaceutical organic chemistry	1 year Pharm.D	Isomerism, inter molecular forces, nomenclature of some hydrocarcons, substitution rections, baeyers strain theory

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Anna Joyson	Pharmaceutical Chemistry	Medicinal chemistry	5 th sem B.Pharm	Detailed study of anti angina drugs includes vasodilators, calcium channel blockers, anti hypertensive agents and diuretics
		Pharmaceutical inorganic chemistry	1st Sem B.Pharm	Acid and base theorys, Indian pharmacopoeia, sources of impurities, limit test
		Pharmaceutical organic chemistry	1 year Pharm.D	Isomerism, inter molecular forces, nomenclature of some hydrocarbons, substitution reactions, baeyers strain theory

DEPARTMENT OF PHARMACEUTICS

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Introduction science of microbiology
		II Pharm.D (Pharmaceutical Microbiology)	2018	Bacteria: Classification, Structure, Nutritional requirements, Cultivation of Bacteria, Culture media
		II Pharm.D (Pharmaceutical Microbiology)	2018	Bacterial count, Isolation and identification of bacteria
		II Pharm.D (Pharmaceutical Microbiology)	2018	Fungi: Yeast and Mold
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Virus: structure, classification, cultivation
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D	2018	Different methods of sterilization
Dr. Dineshkumar B	Pharmaceutics	(Pharmaceutical Microbiology)	2018	Sterility testing of Pharmaceutical products
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Validation of sterilization methods
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Disinfectants: classification, Evaluation tests-Phenol co-efficient test
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D	2018	Immunology, Antigen-Antibody reactions, toxoids

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		(Pharmaceutical Microbiology)		
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Diagnostic tests
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Microbial culture sensitivity Testing
Dr. Dineshkumar B	Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Study of infectious diseases
Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Targeted Drug Delivery Systems Tumor targeting and Brain specific delivery
		M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Targeting Methods: Nanoparticles & Liposomes
		M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Micro-Capsules / Micro-Spheres
		M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Monoclonal Antibody
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Niosomes, Aquasomes

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Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Phytosomes, Electosomes
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Pulmonary Drug Delivery Systems
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Nucleic acid based therapeutic delivery system
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Liposomal gene delivery system
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Therapeutic antisense molecules
Dr. Dineshkumar B	Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Aptamers

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the	Year/Semester	Title of the Video	Link of the Video
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		course			
Dr. Dineshkumar B	Dept. of Pharmaceutics	II Pharm.D	2018 Batch	Gram Staining	https://www.youtube.com/watch?v=sxa46xKfIOY
		M.Pharm (Pharmaceutics)	II-Semester	In vivo Gene Therapy	https://www.youtube.com/watch?v=iUMjzd2T2Dk
		M.Pharm (Pharmaceutics)	II-Semester	Ex vivo Gene Therapy	https://www.youtube.com/watch?v=VnwjJ180FtU
		M.Pharm (Pharmaceutics)	II-Semester	High Pressure Homogenizer for Nanoparticle Production	https://www.youtube.com/watch?v=Ed0K5Cjbm0

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. Dineshkumar B	Dept. of Pharmaceutics	M.Pharm (Pharmaceutics) (Subject: Molecular Pharmaceutics)	II-Semester	Targeted Drug Delivery System
		II Pharm.D (Pharmaceutical Microbiology)	2018	Immune system and classification of immunity

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. Dineshkumar B	Dept. of Pharmaceutics	II Pharm.D (Pharmaceutical Microbiology)	2018	Diagnostic tests (Online Test Conducted)

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Jithin Raj	Pharmaceutics	M.Pharm	II Semester	Targeted drug delivery system
Jeswin Davis C		M.Pharm	II Semester	Tumor targeting drug delivery systems
Chanchal Joy		M.Pharm	II Semester	Phytosomes
Aarthy Jolly		M.Pharm	II Semester	Intranasal drug delivery system
Jithin Raj	Pharmaceutics	M.Pharm	II Semester	Generic biologics, generic substitution, study submission and drug review, Bioequivalence studies
Jeswin Davis C	Pharmaceutics	M.Pharm	II Semester	Effect of protein binding, tissue binding, cytochrome p450 based drug interactions and drug interactions linked to transporters
Chanchal Joy	Pharmaceutics	M.Pharm	II Semester	Drug interactions
Aarthy Jolly	Pharmaceutics	M.Pharm	II Semester	Biotechnology drugs

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Jithin Raj	Pharmaceutics	M.Pharm	II Semester	Ethics of computing in pharmaceutical research
Jeswin Davis C	Pharmaceutics	M.Pharm	II Semester	Artificial intelligence
Chanchal Joy	Pharmaceutics	M.Pharm	II Semester	History of computer
Aarthy Jolly	Pharmaceutics	M.Pharm	II Semester	Computational fluid dynamics
Jithin Raj	Pharmaceutics	M.Pharm	II Semester	Sunscreen, Dandruff, Dental cavities
Jeswin Davis C	Pharmaceutics	M.Pharm	II Semester	Surfactants, Emollients and Antimicrobials
Chanchal Joy	Pharmaceutics	M.Pharm	II Semester	Skin and related problems, care needed for face
Aarthy Jolly	Pharmaceutics	M.Pharm	II Semester	Indian regulatory requirements for labeling, Provisions related to import of cosmetics, Provisions related to manufacturer of cosmetics

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Title of PPT
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Introduction science of microbiology
		Pharmaceutical Microbiology	II Pharm.D	2018	Bacteria: Classification, Structure, Nutritional requirements, Cultivation of Bacteria, Culture media
		Pharmaceutical	II Pharm.D	2018	Bacterial count, Isolation and

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		Microbiology			identification of bacteria
		Pharmaceutical Microbiology	II Pharm.D	2018	Fungi: Yeast and Mold
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Virus: structure, classification, cultivation
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Different methods of sterilization
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Sterility testing of Pharmaceutical products
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Validation of sterilization methods
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Disinfectants: classification, Evaluation tests-Phenol co-efficient test
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Immunology, Antigen-Antibody reactions, toxoids
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Diagnostic tests
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Microbial culture sensitivity Testing
Dr. Dineshkumar B	Pharmaceutics	Pharmaceutical Microbiology	II Pharm.D	2018	Study of infectious diseases

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Subject	Name of the course	Year/Semester	Title of PPT
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Targeted Drug Delivery Systems Tumor targeting and Brain specific delivery
		Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Targeting Methods: Nanoparticles & Liposomes
		Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Micro-Capsules / Micro-Spheres
		Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Monoclonal Antibody
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Niosomes, Aquasomes
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Phytosomes, Electrosomes
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Pulmonary Drug Delivery Systems
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Nucleic acid based therapeutic delivery system
Dr. Dineshkumar B	Pharmaceutics	Molecular	M.Pharm	II-Semester	Liposomal gene delivery system

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		Pharmaceutics	(Pharmaceutics)		
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Therapeutic antisense molecules
Dr. Dineshkumar B	Pharmaceutics	Molecular Pharmaceutics	M.Pharm (Pharmaceutics)	II-Semester	Aptamers

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Dr Smitha K Nair	Pharmaceutics	B. Pharm	VI Sem	Absorption- Introduction,Membrane physiology
				factors influencing drug absorption
				Absorption of drug from Non-per os extravascular route
				Elimination
				Non renal route of elimination
				Protein binding of drugs
				Bioavailabilty ,Measurement of bioavailability
				Pharmacokinetics-Basic considerations
				Bioequivalence studies- Study design
				Significance of Protein binding of drugs

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				concept and factors influencing renal clearance
		B Pharm	VII Sem	Polymers
				properties of Polymers, Application
				Microencapsulation- Introduction, Advantages, disadvantages, Microparticles, application
				Methods of Microencapsulation
		B Pharm	V Sem	Tablets- Introduction, ideal characteristics, classification
				Excipients, Granulation Techniques
				compression of granules, Tablet tooling
				Processing Problem
		Pharm D	Fourth Year & First P B	Elimination
				Non renal route of elimination
				Absorption- Introduction, Membrane physiology
				factors influencing drug absorption
				concept and factors influencing renal clearance
		M Pharm	II Sem	Bioequivalence studies- Study design
				Pharmacokinetics- Basic considerations

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				pk and pd of biotechnological pdts
				Bioavailability, Measurement of bioavailability
				Drug interactions
				BA & BE studies- Generic biologics, clinical significance of BE studies, special concern and generic substitution
				Bioequivalence study- evaluation, example, submission & review of data

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of the Video	Link of the Video
Dr Smitha K Nair	Pharmaceutics	B Pharm	V Sem	Tableting Granulation – how its works	https://www.youtube.com/watch?v=wbuC6bpWQM8
				Wet Granulation and Tableting	https://youtu.be/zbvKS7yryhg
		Pharm D	First Year	Formulation of emulsion	https://youtu.be/WU4Gov32QVY
				Preparation of emulsion	https://youtu.be/Wyzq-ly-FBg
				Suppositories Displacement	https://youtu.be/DAPJuClyN4c

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				value	
				Pharmaceutical calculation- Allegation method	https://youtu.be/DU7GmcrRT_w

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr. Smitha K Nair		B Pharm	VI Sem	Distribution -Introduction and actors influencing distribution
				Protein binding of drugs & factors influencing protein binding
				Renal excretion of drug
				Renal clearance, factors affecting renal excretion
				Non renal route of drug elimination
				Objective of bioavailability studies, absolute and relative bioavailability
				Measurement of bioavailability
				, Pharmacokinetics Introduction, Plasma concentration time profile

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				Compartment model
				Physiological model, Non compartment model
				One compartment open model I V bolus
				One compartment I V infusion
				One compartment open model extravascular administration
				Urinary excretion data
				Multicompartment Model- Two compartment model
				Causes of nonlinearity, Michealis Menten equation, determination of Km & Vmax
				Introduction, Repetitive I V Administration-One compartment model
				Repetitive Extravascular- one compartment model
		B Pharm	VII Sem	Novel drug delivery system ,Inttroduction
				Types of polymers
				Properties of polymers
				Microencapsulation
				Introduction, Advantages & disadvantages,

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				Microparticles, application
		B Pharm	V Sem	Introduction, Ideal characteristics, classification of tablets
				Preparation of Granules
				Compression of granule to tablets
				Processing Problems
		Pharm D	Fourth Year & First PB	Determination of renal clearance
				Introduction to Multiple dosage regimen
				Principle of superposition
				Repetitive IV administration - One compartment model
				Repetitive extra vascular administration - One compartment model
				Multiple dosage regimen - two compartment model
				Repetitive extravascular dosing
				Non compartmental pharmacokinetics
				Introduction, statistical moment theory
				Statistical moment theory, MRT for one compartment model

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				MRT for Multicompartment model
				Dosage adjustment
		M Pharm	II Sem	Pharmacokinetic model
				Pharmacokinetics: Basic considerations
				Bioavailability and Bioequivalence: drug product performance and Purpose of bioavailability study
				Absolute and relative availability, Method for assessment of bioavailability, bioequivalence studies
				Bioequivalence study design
				Bioequivalence example, Evaluation of data
				Pharmacokinetics
				One compartment model -I V bolus
				One compartment model -I V infusion
				One compartment open model extravascular administration
				Urinary excretion data
				Multicompartment model

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				Two compartment open model I V infusion
				Two compartment open model Extravascular administration
				Non linear Pharmacokinetics
				Michaelis Menten equation & estimation of Km and Vmax

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Dr. Smitha K Nair	Pharmaceutics	Biopharmaceutics and pharmacokinetics	B Pharm	V semester	Distribution -Introduction and actors influencing distribution
					Protein binding of drugs & factors influencing protein binding
					Absorption of drug from non per os extravascular routes
					Renal excretion of drug
					Renal clearance, factors affecting renal excretion
					Non renal route of drug elimination
					Objective of bioavailability studies, absolute and relative bioavailability

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					Measurement of bioavailability
					Pharmacokinetics
					Introduction, Plasma concentration time profile
					Compartment model
					Physiological model, Non compartment model
					One compartment open model I V bolus
					One compartment I V infusion
					One compartment open model extravascular administration
					Urinary excretion data
					Multicompartment Model- Two compartment model
					Causes of nonlinearity, Michealis Menten equation, determination of K_m & V_{max}
					Introduction, Repetitive I V Administration-One compartment model
					Repetitive Extravascular- one compartment model
		Novel drug delivery system	B Pharm	VII Sem	Novel drug delivery system ,Introduction
					Types of polymers

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					Properties of polymers
					Microencapsulation
					Introduction, Advantages & disadvantages, Microparticles, application
		Formulative Pharmacy	B Pharm	V Sem	Introduction, Ideal characteristics, classification of tablets
					Preparation of Granules
					Compression of granule to tablets
					Processing Problems
		Biopharmaceutics and Pharmacokinetics	Pharm D & Pharm D PB	IV Year I Year	Concept of clearance and factors influencing renal clearance
					Non-Renal route of elimination
					Determination of renal clearance
					Introduction to Multiple dosage regimen
					Principle of superposition
					Repetitive IV administration - One compartment model

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					Repetitive extra vascular administration - One compartment model
					Multiple dosage regimen - two compartment model
					Repetitive extravascular dosing
					Non compartmental pharmacokinetics Introduction, statistical moment theory
					Statistical moment theory, MRT for one compartment model
					MRT for Multicompartment model
					Dosage adjustment
		Pharmaceutics I	Pharm D	First Year	Chemical incompatibility
					Therapeutic Incompatibility
					Pharmaceutical calculation Alligation method
					Suppositories Displacement value and its calculation
		Advanced	M Pharm	II Sem	Pharmacokinetic model

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		Biopharmaceutics and Pharmacokinetics			Pharmacokinetics: Basic considerations
					Bioavailability and Bioequivalence: drug product performance and Purpose of bioavailability study
					Absolute and relative availability, Method for assessment of bioavailability, bioequivalence studies
					Bioequivalence study design
					Bioequivalence example, Evaluation of data
					Pharmacokinetics and Pharmacodynamics of biotechnology drugs
					Generic biologics, clinical significance of BE studies, special concerns in BA/BE studies, generic substitution
					Pharmacokinetics
					One compartment model -I V bolus
					One compartment model -I V infusion
					One compartment open model extravascular administration
					Urinary excretion data
					Multicompartment model

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					Two compartment open model I V infusion
					Two compartment open model Extravascular administration
					Non linear Pharmacokinetics Michaelis Menten equation & estimation of Km and Vmax

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Mrs.Rinku Jayaprakash	Pharmaceutics	B.pharm	4 th semester	Suspension
				Colloids
				Kinetics and drug stability
				Accelerated stability studies
				Stability of drugs
		Mpharm	2 nd Semester	Structure of hair and growth cycle
				Skin and relating problems
				Cleansing and care needs for face
				Dental cavities,Bleeding gums,mouth odourants

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Cosmetics regulatory
				Herbal cosmetics used for skin and hair
		B.pharm	3 rd Semester	Solubility
				Factors influencing solubility
				Ideal solubility parameters
				Diffusion principles
				Distribution law
				Partially miscible liquids
				State of matter
				Vapour pressure & latent heat
				Sublimation & Eutectic mixture
				Gases
				History and scope of microbiology
				Bacterial nutrition
				Culture media
				Types of culture media
				Isolation of pure culture

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Preservation of pure culture
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Mrs. Rinku Jayaprakash	Pharmaceutics	Physical pharmaceuticals II	B.Pharm	4 th semester	Suspension
					Colloids
					Kinetics and drug stability
					Accelerated stability studies
					Stability of drugs
	Cosmetics &cosmeceuticals	M Pharm	2 nd Semester	Structure of hair and growth cycle	
				Skin and relating problems	
				Cleansing and care needs for face	
				Dental cavities,Bleeding gums,mouth odourants	
				Cosmetics regulatory	
				Herbal cosmetics used for skin and hair	

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		Physical pharmaceutics I	B.Pharm	3 rd semester	Solubility
					Factors influencing solubility
					Ideal solubility parameters
					Diffusion principles
					Distribution law
					Partially miscible liquids
					State of matter
					Vapour pressure & latent heat
					Sublimation & Eutectic mixture
					Gases
		Pharmaceutical microbiology	B.Pharm	3 rd semester	History and scope of microbiology
					Bacterial nutrition
					Culture media
					Types of culture media
					Isolation of pure culture

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					Preservation of pure culture
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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Ms Kavitha V B	Pharmaceutics	B.Pharm	Third semester 2019batch	Introduction to microbiology
				Structure of Bacteria
				Growth Requirements of bacteria
				Isolation and preservation of pure culture
				Microscopy
				Identification of bacteria
				Sterilization techniques and its evaluation
				Fungi
				Virus
				Disinfectants
Sterility test				

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				Design of aseptic area
				Laminar air flow
				Microbial assay
				Assessment of antibiotic
				Spoilage
				Preservation of pharmaceuticals
				Animal cell culture
		Pharm D	Second year 2019 Batch	Fungi
				Disinfectants
				Classification of Immunity
				Antigen and types
				Antibodies and antigen antibody reaction
				Bacterial exotoxins and endotoxins
				Immunization and its importance

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Name of the course	Year/Semester	Topic
Ms. Kavitha V B	Pharmaceutics	B.Pharm	Third Semester 2019	Introduction to microbiology
				Structure of Bacteria
				Growth Requirements of bacteria
				Isolation and preservation of pure culture
				Microscopy
				Identification of bacteria
				Sterilization techniques and its evaluation
				Fungi
				Virus
				Disinfectants
				Sterility test
				Design of aseptic area
				Laminar air flow
				Microbial assay

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					Assessment of antibiotic
					Spoilage
					Preservation of pharmaceuticals
					Animal cell culture
		Pharm D	Second year 2019 batch		Fungi
					Disinfectants Classification of Immunity
					Antigen and types
					Antibodie and antigen antibody reaction
					Bacterial exotoxins and endotoxins
					Immunization and its importance
Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Kavitha V B	Pharmaceutics	Biopharmaceutics and Pharmacokinetics	B.Pharm	Sixth Semester 2017 batch	Lipophilicity and drug absorption
					Biotransformation -phase I reactions
					Biotransformation phase II reactions

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				In Vitro drug Dissolution Models
				IVIVC
				methods to enhancement of bioavailability
				Nonlinear pharmacokinetics - Introduction, Factors causing non-linearity.
				Lipophilicity and drug absorption
				Biotransformation -phase I reactions
		Advanced Biopharmaceutics and harmacokinetics	M.Pharm Second Semester 2019batch	Lipophilicity and drug absorption
				Transport models
				Biopharmaceutic considerations in drug product design and in vitro drug product performance
				In vitro drug dissolution testing
				Alternative methods for dissolution
				Consideration in drug product design- IVIVC

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				Pharmacokinetics of biotechnology drugs
				Pharmacokinetics: vaccines and gene therapy
				Modified release drug products
				Targeted drug delivery system and biotechnology products
				Introduction to pharmacokinetic and pharmacodynamic drug interaction
				In vitro drug dissolution testing
				Alternative methods for dissolution
	Biopharmaceutics and pharmacokinetics	Pharm. D	Fourth year 2016batch	Biotransformation -phase I reactions
				Biotransformation phase II reactions
				Factors affecting biotransformation of drug
	Industrial Pharmacy	B.Pharm	Seventh Semester 2017batch	Introduction to industrial Pharmacy
				Introduction to Pilot plant scale up

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					techniques
					General considerations for pilot plant techniques
					Pilot plant techniques for Tablets
		Biopharmaceutics and harmacokinetics	Pharm. D	Fourth year 2017 batch	Factors influencing Absorption
		Formulative Pharmacy	B. Pharm	Fifth Semester 2018batch	BCS Classification system
					Introduction, goals and objectives of Preformulation studies
					Physical properties- Organoleptic properties, Particle size & Flow properties

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Mrs.Akhila Jophy	Pharmaceutics	B.pharm	3 rd Semester	Material handling system part 1
				Introduction and belt conveyer
				Material handling system part 11

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Pneumatic conveyer and screw conveyer
				Evaporation part 1 Introduction and factors effecting evaporation, steam jacketed kettle
				Evaporation part 11 Climbing film, forced circular and Multiple effect evaporator
				Centrifugation part 1 principle , types, perforated and non perforated basket centrifuge
				Centrifugation part 11 Super semi continues
				Distillation part1 Laws, classification and flash distillation
				Distillation part11 Molecular, azeotropic and extractive and vacuum distillation
				Distillation part111 Simple and steam distillation

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				Distillation partIV fractional distillation
				Corrosion part1 corrosion and its types
				Corrosion part11 theory
				Corrosion part111 prevention

				Measurement of bacterial growth
				Cultivation of anaerobic bacteria
				Morphology and structure of bacteria
				Prokaryotes
				Eukaryotes
				Bacterial growth

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Mrs. Akhila Jophy	Pharmaceutics	Pharmaceutical engineering	B. Pharm	3 rd semester	Material handling system part 1 Introduction and belt conveyer
					Material handling system part 11 Pneumatic conveyer and screw conveyer
					Evaporation part 1 Introduction and factors effecting evaporation, steam jacketed kettle
					Evaporation part 11 Climbing film, forced circular and Multiple effect evaporator
					Centrifugation part 1 principle , types, perforated and non perforated basket centrifuge
					Centrifugation part 11 Super semi continous
					Distillation part1 Laws, classification and flash distillation

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					Distillation part I Molecular, azeotropic and extractive and vacuum distillation
					Distillation part II Simple and steam distillation
					Distillation part IV fractional distillation
					Corrosion part I corrosion and its types
					Corrosion part II theory
					Corrosion part III prevention
		Pharmaceutical microbiology	B.Pharm	3 rd semester	Measurement of bacterial growth
					Cultivation of anaerobic bacteria
					Morphology and structure of bacteria

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					Prokaryotes
					Eukaryotes
					Bacterial growth

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Ms. Dony Lonappan	Pharmaceutics	B.Pharm	Sixth semester 2017batch	Lipophilicity and drug absorption
				Biotransformation -phase I reactions
				Biotransformation phase II reactions
				In Vitro drug Dissolution Models
				IVIVC
				methods to enhancement of bioavailability
				Nonlinear pharmacokinetics - Introduction, Factors causing non-linearity.
		M.Pharm	Second Semester 2019batch	Lipophilicity and drug absorption

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			Transport models
			Biopharmaceutic considerations in drug product design and in vitro drug product performance
			In vitro drug dissolution testing
			Alternative methods for dissolution
			Consideration in drug product design-IVIVC
			Pharmacokinetics of biotechnology drugs
			Pharmacokinetics: vaccines and gene therapy
			Modified release drug products
			Targeted drug delivery system and biotechnology products
			Introduction to pharmacokinetic and pharmacodynamic drug interaction
	Pharm. D	Fourth year 2016batch	Biotransformation -phase I reactions
			Biotransformation phase II reactions
			Factors affecting biotransformation of drug

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		B.Pharm	Seventh Semester SS2017 batch	Introduction to industrial Pharmacy
				Introduction to Pilot plant scale up techniques
				General considerations for Pilot plant techniques
		Pharm.D	Fourth year 2017batch	Factors influencing Absorption
		B.Pharm	Fifth Semester 2018batch	BCS Classification system
				Introduction, goals and objectives of Preformulation studies
				Physical properties- Organoleptic properties, Particle size & Flow properties

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of the Video	Link of the Video
Ms. Dony Lonappan	Pharmaceutics	B.Pharm	Sixth Sem	How body absorbs	https://classroom.google.com/c/NTczODkxNTMxNjla/m/MTEyNjMyOTkxNTE3/details

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			2017batch	and uses medicine	
				How body process medicine	https://classroom.google.com/c/NTczODkxNTMxNjla/m/MTEyNjMyOTkxNTU4/details
		Pharm. D	Fourth sem 2017 batch	How body absorbs and uses medicine	https://classroom.google.com/c/NTczODkxNTMxNjla/m/MTEyNjMyOTkxNTE3/details
				How body process medicine	https://classroom.google.com/c/NTczODkxNTMxNjla/m/MTEyNjMyOTkxNTU4/details

Name of staff	Department	Name of the course	Year/Semester	Topic
Ms. Dony Lonappan	Pharmaceutics	B.Pharm	Sixth Semester 2017	Biotransformation phase II reactions
				in vitro dissolution testing

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			IVIVC
			Methods to enhancement of bioavailability- drug solubility or dissolution rate & drug permeability
			Methods to enhancement of bioavailability -drug stability & gastrointestinal retention
			Nonlinear Pharmacokinetics
M.Pharm	Second semester 2019		Transport models
			Factors affecting absorption
			Patient related factors
			Biopharmaceutic considerations in drug product design and in vitro drug product performance
			in-vitro drug dissolution models, Compendial methods of dissolution
			Alternative methods of Dissolution testing, Meeting Dissolution Requirements, Problems of variable Control in Dissolution Testing
			IVIVC, Dissolution profile comparisons, Drug product stability, Considerations in design of a drug product

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				Pharmacokinetics of proteins,peptides, Monoclonal antibodies and oligonucleotides.
				Enhancement of dissolution rate to enhance bioavailability
				Pharmacokinetics of vaccines, gene therapy
				Modified drug release products
				Targeted drug delivery system and biotechnology products
				Pharmacokinetics and pharmacodynamics drug interaction
		B.Pharm	Seventh Semester 2017	Introduction to industrial Pharmacy and pilot plant scale up techniques
				Personnel requirements, Space requirements, Raw materials
		B.Pharm	Fifth Semester 2018	BCS Classification system & Introduction to preformulation studies
				Physical properties- Organoleptic properties, Particle size & Flow properties

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Name of staff	Department	Name of the course	Year/Semester	Topic
Ms. Dony Lonappan	Pharmaceutics	M.Pharm	Second Semester 2019	Pharmacokinetics of vaccines, gene therapy
		B.Pharm	Sixth Semester 2017	Enhancement of bioavailability by enhancing drug permeability, drug stability and gastrointestinal retention.

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Dony Lonappan	Pharmaceutics	Biopharmaceutics and	B.Pharm	Sixth Semester	Lipophilicity and drug absorption

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		Pharmacokinetics		2017 batch	
					Biotransformation -phase I reactions
					Biotransformation phase II reactions
					In Vitro drug Dissolution Models
					IVIVC
					methods to enhancement of bioavailability
					Nonlinear pharmacokinetics - Introduction, Factors causing non-linearity.
					Lipophilicity and drug absorption
					Biotransformation -phase I reactions
		Advanced Biopharmaceutics and Pharmacokinetics	M.Pharm	Second Semester 2019batch	Lipophilicity and drug absorption
					Transport models
					Biopharmaceutic considerations in drug product design and in vitro drug product performance
					In vitro drug dissolution testing

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				Alternative methods for dissolution
				Consideration in drug product design-IVIVC
				Pharmacokinetics of biotechnology drugs
				Pharmacokinetics: vaccines and gene therapy
				Modified release drug products
				Targeted drug delivery system and biotechnology products
				Introduction to pharmacokinetic and pharmacodynamic drug interaction
				In vitro drug dissolution testing
				Alternative methods for dissolution
	Biopharmaceutics and Pharmacokinetics	Pharm. D	Fourth year 2016batch	Biotransformation -phase I reactions
				Biotransformation phase II reactions
				Factors affecting biotransformation of drug
	Industrial Pharmacy	B.Pharm	Seventh Semester	Introduction to industrial Pharmacy

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				2017batch	
					Introduction to Pilot plant scale up techniques
					General considerations for pilot plant techniques
					Pilot plant techniques for Tablets
		Biopharmaceutics and Pharmacokinetics	Pharm.D	Fourth year 2017 batch	Factors influencing Absorption
		Formulative Pharmacy	B.Pharm	Fifth Semester 2018batch	BCS Classification system
					Introduction, goals and objectives of Preformulation studies
					Physical properties- Organoleptic properties, Particle size & Flow properties

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Mrs.Amala	Pharmaceutics	B.pharm	7 th semester	Controlled drug delivery system

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Fetcy.K				Mucosal drug delivery system
		M pharm	2 nd Semester	Structure of skin and growth cycle
				Skin and relating problems
				Cleansing and care needs for face
				Dental cavities,Bleeding gums,mouth odourants
				Herbal cosmetics used for skin and hair
				Cosmetics regulatory
				Structure of hair and growth cycle
		B.pharm	6 th Semester	Enzyme technology
				Protein engineering
				Immunoglobulins
				Mutation
				Vaccination and its types
				Blood products
				Current trends of vaccination
				Hybridoma Technology
				Introduction to genetic engineering

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				Recombinant DNA technology
				Application of Recombinant DNA technology
				PCR
				Fermentation
				Biosensor
				Large scale fermentation
				Blotting techniques
				Production of enzymes

		Pharm D	3 rd yr 2017	Preparation of Parenterals
				Sterilization equipments
				QC of parenterals
				packaging
				Introduction of Controlled drug delivery system
				Classification of CDDS
				Novel drug delivery system
				Buccal drug delivery system

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				Nasal drug delivery system
				Ocular drug delivery system
				Rectal drug delivery system
				Implantable delivery system
				Jellies and ointments
				Parenteral DDS
				Transdermal DDS
		Pharm D	3 rd yr 2018	Pharmaceutical dosage design

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Mrs. Amala Fetcy.K	Pharmaceutics	Pharmaceutical Biotechnology	B.Pharm	6 th sem	Hypersensitivity reactions
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Enzymes
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Protein Engineering
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Transposons

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		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Immunoglobulins
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Structure and function of MHC
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Use of microbes in industry
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Genetic organization of prokaryotes and eukaryotes
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Immunity
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Mutation
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Vaccination Introduction
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Vaccination preparation
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Blood products
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Vaccination-III

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Current trends of Vaccination
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Hybridoma Technology introduction
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Applications of Hybridoma Technology
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Introduction to Genetic engineering
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Study of cloning vectors, restriction endonucleases and DNA ligase.
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Recombinant DNA technology
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Application of genetic engineering in medicine.
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Application of r DNA technology and genetic engineering in the products
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Interferon, Insulin, Hepatitis B

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		Pharmaceutical Biotechnology	B.Pharm	6 th sem	PCR
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Storage of Vaccines
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Rabies vaccine
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Biosensor
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Fermentation introduction
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Fermentation methods and general requirements
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Study of media, equipments, sterilization methods, aeration process, stirring
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Large scale production fermenter design and its various controls
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Biosensor

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Blotting techniques
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	ELISA
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Production of penicillin, glutamic acid, citric acid etc
		Pharmaceutical Biotechnology	B.Pharm	6 th sem	Production of enzymes
		Pharmaceutical formulations	Pharm.D 2017	3 rd year	Parenterals introduction
		Pharmaceutical formulations	Pharm.D	3 rd year	Semi-solid dosage forms
		Pharmaceutical formulations	Pharm.D	3 rd year	Formulation of Parenterals
		Pharmaceutical formulations	Pharm.D	3 rd year	QC tests for Parenterals
		Pharmaceutical formulations	Pharm.D	3 rd year	Packaging of parenterals
		Pharmaceutical formulations	Pharm.D	3 rd year	Concept of Controlled drug delivery system

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		Pharmaceutical formulations	Pharm.D	3 rd year	Introduction to NDDS
		Pharmaceutical formulations	Pharm.D	3 rd year	Buccal drug delivery system
		Pharmaceutical formulations	Pharm.D	3 rd year	Nasal drug delivery system
		Pharmaceutical formulations	Pharm.D	3 rd year	Ocular drug delivery system
		Pharmaceutical formulations	Pharm.D	3 rd year	Rectal drug delivery system
		Pharmaceutical formulations	Pharm.D	3 rd year	Implantable delivery system
		Pharmaceutical formulations	Pharm.D	3 rd year	Jellies and ointments
		Pharmaceutical formulations	Pharm.D	3 rd year	Parenteral DDS
		Pharmaceutical formulations	Pharm.D	3 rd year	Transdermal DDS
		Pharmaceutical formulations	Pharm.D 2018	3 rd year	Pharmaceutical dosage design
		Novel drug	B.pharm	7 th semester	Controlled drug delivery

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		delivery system			system
		Novel drug delivery system			Mucosal drug delivery system
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Introduction to cosmetics
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Structure of skin and related problems
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Structure of hair and hair growth cycle
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Personal care for face
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Oral cavity
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Cleansing and care needs for face, neck, eyes, lips, feet
		Cosmetics and cosmetology	M.Pharm	2 nd sem	Herbal cosmetics

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Mrs Amala Fetcy. K	Pharmaceutics	B.Pharm	6 th sem	Genetics I
				Genetics II
				Genetics III
				Genetics IV
		B.Pharm	7 th sem	CDDS I
				CDDS II
				CDDS III
		Pharm. D	3 rd yr 2017	NDDS
		Pharm. D	3 rd yr 2018	Pharmaceutical dosage design

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Jeswin Davis	Phramaceutics	M.pharm	2 nd sem	Regulatory requirements of cosmetics
Arathy				Cosmettes- biological aspects
Chanchal				Formulation building blocks

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Jithin				Design of cosmeceutical products
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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Miss. Sminu Jos	Pharmaceutics	PharmD	First Year	Surgical dressings
				Galenicals & Infusion
				Surgical aids
				Maceration & Digestion
				Decoction & Percolation
		Mpharm	Second Semester	Legal protection of innovative uses of computers
				Ethics of computing in pharmaceutical R&D
				History of computers
				QbD

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Computational modeling of drug disposition
				Insilico modeling
				Optimization
				Screening, Factorial design
				Computer aided formulation development
				Pharmaceutical automation
				CFD
				Robotics
				Artificial intelligence
				Computer simulations in PK & PD
				Computers in clinical development
				Computers in market analysis
				Computer aided biopharmaceutical characterization - introduction
				Parameter sensitivity analysis
				Virtual trial & fed vs fasted state

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				IVIVC
				Biowaiver considerations
				Statistical modeling in Pharmaceutical research and development
		B.pharm	VII Semester	Regulatory affairs – introduction
				Historical overview – India
				Historical overview – Others
				Regulatory authorities
				Role of RA dept
				Responsibility of RA professional

LIST OF ALL VIDEOS USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of the Video	Link of the Video
Miss. Sminu Jos	Pharmaceutics	PharmD	First Year	Emulsion – types	https://youtu.be/DnwC8t8Acaq
				Identification tests for emulsion	https://youtu.be/ii9bDt-xWPM
				Stability of emulsion	https://youtu.be/tgcuzT1ix-O

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Theories of emulsion	https://youtu.be/VgKv-YWxISM
		Mpharm	Second Semester	Optimization techniques	https://youtu.be/wIAOApE0Q3o

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Miss. Sminu Jos	Pharmaceutics	PharmD	First Year	Pharmaceutical calculations
				Percentage calculations
				Displacement value & its calculations
				Monophasic dosage form
		Mpharm	Second Semester	Legal & ethical issues
				Optimization
				Screening, Factorial design
				Computer aided formulation development
				Computers in pharmaceutical formulations
				QbD

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

			Pharmaceutical automation
			CFD
			Robotics
			Artificial intelligence
			Compter simulations in PK & PD
			Computers in clinical development
			Computers in market analysis
			Computer aided biopharmaceutical characterization
Bpharm	VII Semester		Regulatory affairs – introduction
			Historical overview - India
			Historical overview – Others
			Regulatory authorities
			Role of RA dept
			Responsibility of RA professional

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Name of the course	Year/Semester	Topic
Miss. Sminu Jos	Pharmaceutics	MPharm	Second Semester	Artificial Intelligence
				Robotics

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Miss. Sminu Jos	Pharmaceutics	Pharmaceutics	PharmD	First Year	Surgical dressings
					Galenicals & Infusion
					Surgical aids
					Maceration & Digestion
					Decotion & Percolation
		CADD	MPharm	Second Semester	Legal protection of innovative uses of computers
					Ethics of computing in pharmaceutical R&D

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				History of computers
				QbD
				Computational modeling of drug disposition
				Insilico modeling
				Optimization
				Screening, Factorial design
				Computer aided formulation development
				Pharmaceutical automation
				CFD
				Robotics
				Artificial intelligence
				Computer simulations in PK & PD
				Computers in clinical development
				Regulation of computer systems
				Computers in market analysis
				Computer aided biopharmaceutical characterization – introduction

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Parameter sensitivity analysis
				Virtual trial & fed vs fasted state
				IVIVC
				Biowaiver considerations
				Statistical modeling in Pharmaceutical research and development
	Industrial pharmacy	B.Pharm	VII Semester	Regulatory affairs – introduction
				Historical overview – India
				Historical overview – Others
				Regulatory authorities
				Role of RA dept
				Responsibility of RA professional

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

DEPARTMENT OF PHARMACY PRACTICE

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Dr.L.Panayappan	Pharmacy Practice	Clinical Toxicology	PharmD	IV Year	Mercury Poisoning Copper Poisoning Poly ethylene Glycol Radiation Poisoning Mycotoxin Poisoning Iron Poisoning Arthropod Poisoning Lead Poisoning Mushroom Poisoning Plant Poisoning Carbamates Methanol Poisoning Antidotes and its Clinical Applications
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Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Dr.L.Panayappan	Pharmacy Practice	Hospital Pharmacy	PharmD	IV Year	Introduction to Hospital Hospital and its Organization Hospital Pharmacy Organization Roles and Responsibilities of Hospital Pharmacist The Budget Preparation Pharmacy and Therapeutic Committee Hospital Formulary Research and Ethical Committee
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Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Dr.L.Panayappan	Pharmacy Practice	Clinical Research	PharmD	V Year	Introduction to clinical trials Phases of Clinical trials Post Marketing Surveillance

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Lincy George	Pharmacy practice	Pharm D	IV Year	1) PUD 2) GERD 3) IBD 4) ALD 5) Hepatitis 6) Drug Induced Liver Disorders 7) Anaemia 8) VTE 9) Drug Induced Blood Disorder 10) Epilepsy 11) Parkinsonism 12) Stroke 13) Alzhiemers Disorder 14) Schizophrenia 15) Affective Disorders 16) Anxiety Disorder 17) Sleep Disorders 18) OCD 19) Pain Pathway 20) Neuralgia 21) Head Ache 22) EBM
		Pharm D(PB)	I Year	1. PUD 2. GERD 3. IBD 4. ALD 5. Hepatitis 6. Drug Induced Liver Disorders 7. Anaemia

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				<ol style="list-style-type: none"> 8. VTE 9. Drug Induced Blood Disorder 10. Epilepsy 11. Parkinsonism 12. Stroke 13. Alzhiemers Disorder 14. Schizophrenia 15. Affective Disorders 16. Anxiety Disorder 17. Sleep Disorders 18. OCD 19. Pain Pathway 20. Neuralgia 21. Head Ache 22. EBM
		MPharm	I Sem	<ol style="list-style-type: none"> 1. PUD 2. GERD 3. IBD 4. Drug Induced Liver Disorders 5. Anemia 6. VTE 7. Drug Induced Blood Disorder 8. HT 9. CHF 10. CAD 11. Arrhythmia 12. Hyperlipidemia
		MPharm	II Sem	<ol style="list-style-type: none"> 1. Epilepsy 2. Parkinsonism 3. Stroke 4. Alzhiemers Disorder 5. Schizophrenia

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				6. Affective Disorders 7. Anxiety Disorder 8. Sleep Disorders 9. OCD 10. Pain Pathway 11. Neuralgia 12. Head Ache 13. EBM
		MPharm	III Sem	1) Research objective and Types of Research 2) Research Designs 3) Data collection Techniques 4) Biostatistics application 5) Parametric and non-parametric test 6) Research writing 7) Research reporting

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Lincy George	Pharmacy Practice	Pharm D	IV Year	1. PUD 2. GERD 3. IBD 4. ALD 5. Hepatitis 6. Drug Induced Liver Disorders 7. Anaemia 8. VTE 9. Drug Induced Blood Disorder 10. Epilepsy 11. Parkinsonism 12. Stroke

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				<ul style="list-style-type: none"> 13. Alzhiemers Disorder 14. Schizophrenia 15. Affective Disorders 16. Anxiety Disorder 17. Sleep Disorders 18. OCD 19. Pain Pathway 20. Neuralgia 21. Head Ache <li style="text-align: right;">22. EBM
		Pharm D(PB)	I Year	<ul style="list-style-type: none"> 1. PUD 2. GERD 3. IBD 4. ALD 5. Hepatitis 6. Drug Induced Liver Disorders 7. Anaemia 8. VTE 9. Drug Induced Blood Disorder 10. Epilepsy 11. Parkinsonism 12. Stroke 13. Alzhiemers Disorder 14. Schizophrenia 15. Affective Disorders 16. Anxiety Disorder 17. Sleep Disorders 18. OCD 19. Pain Pathway 20. Neuralgia 21. Head Ache <li style="text-align: right;">22. EBM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		MPharm	II Sem	<ol style="list-style-type: none"> 1. Epilepsy 2. Parkinsonism 3. Stroke 4. Alzhiemers Disorder 5. Schizophrenia 6. Affective Disorders 7. Anxiety Disorder 8. Sleep Disorders 9. OCD 10. Pain Pathway 11. Neuralgia 12. Head Ache <p style="text-align: center;">EBM</p>
		MPharm	III Sem	<ol style="list-style-type: none"> 1) Research objective and Types of Research 2) Research Designs 3) Data collection Techniques 4) Biostatistics application 5) Parametric and non-parametric test 6) Research writing 7) Research reporting

sLIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASS ROOM

Name of staff	Department	Name of the course	Year/Semester	Topic
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Lincy George	Pharmacy Practice	Pharm D	IV Year	All the classes mentioned above uploaded in google class room also
		Pharm D (PB)	I Year	All the classes mentioned above uploaded in google class room also
		M Pharm	II Sem	All the classes mentioned above uploaded in google class room also
		M Pharm	III Sem	All the classes mentioned above uploaded in google class room also

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Name of the course	Year/Semester	Topic
Lincy george	Pharmacy Practice	IV Pharm D	IV Year	Test paper of Parkinsonism,Stroke and Alzhiemers Disease
		I Pham D(PB)	I Year	Test paper of Parkinsonism,Stroke and Alzhiemers Disease

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

1) Agus Baiju 2) Anju Joy 3) Christy Babu 4) Julia Wilson 5) Lipitha M 6) Manjusha Mohan	Pharmacy Practice	M pharm	II Sem	1. Drug induced Psychiatric disorders 2. Drug induced Renal disorders- 3. Guidelines for rational of antibiotics and surgical prophylaxis 4. Hormone replacement therapy 5. General principles of cancer chemotherapy 6. Hematological Malignancies -
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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Rosmin Jacob	Pharmacy Practice	Pharm D	II	Asthma,COPD,DM,Osteoporosis, CHF,MI,HT,Angina,Arrhythmia, DLP,Prescribing guidelines for special populations
		M Pharm	I	Hospital waste management,IV admixture,Home medicine review,Prescription related problems,First Aid, child & mother care,Smoking

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				cessation,Hospital Budget & management,Management of drugs as per NABH,Formal & informal meetings,Fluid & electrolytes.
		M Pharm	II	Communication in QUM, Prescribing guidelines for special populations,Medication errors,Essential drugs,QUM in hospital settings,Impact of QUM on E-health,

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Rosmin Jacob	Pharmacy Practice	Pharm D	II	Cardiovascular disorders, Endocrine disorders, Ophthalmic disorders
		M.Pharm	II	Communication in QUM, Prescribing guidelines for special populations, Medication errors, Essential drugs, Rational Drug Use, QUM in hospital settings, Impact of QUM on E-health,

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the	Year/Semester	Title of seminar
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		course		
Agnus Baiju	Pharmacy Practice	M Pharm	II	Professional responsibility of pharmacist
Anju Joy	Pharmacy Practice	M Pharm	II	Evaluation process in QMC
Christy Babu	Pharmacy Practice	M Pharm	II	Role of health care professionals in promoting QUM, strategies to promote QUM
Julia Wilson	Pharmacy Practice	M Pharm	II	QUM in Pediatric population and geriatric prescribing
Lipitha K	Pharmacy Practice	M Pharm	II	Regulatory aspects of QUM in India
Manjusha Mohanan	Pharmacy Practice	M Pharm	II	Regulation including Scheduling, Regulation of OTC medicine

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Rosmin Jacob	Pharmacy Practice	Therapeutics	PharmD	II	Cardiovascular disorders, Endocrine disorders, Ophthalmic disorders,
		PQUM	M Pharm	II	Communication in QUM, Prescribing guidelines for special populations, Medication errors, Rational drug

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					use,Essential drugs,QUM in hospital settings,Impact of QUM on E-health,
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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Bincy.T. Abraham	Pharmacy Practice	Pharm D	Third Year	Osteoarthritis, Spondylitis, Rheumatoid arthritis, Gout

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Bincy.T.Abraham	Pharmacy Practice	Pharmd D	Third Year	Rheumatoid arthritis

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Bincy.T.Abraham	Pharmacy Practice	Pharmacotherapeutics II	Pharm. D	Third Year	Osteoarthritis, Spondylitis, Rheumatoid arthritis, Gout

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Aji varghese	Pharmacy practice	B.PHARM	IV YEAR	Therapeutic drug monitoring
				ADR management and monitoring
		M.PHARM	II SEM	Multiple dosing
				Building blocks
				Tdm of lidocaine
				Tdm of digoxin
				Tdm of amiodarone
				Loading and maintenance dose
				Iv to oral route

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				Determination of dose and dosing interval
				Designing of dosage regimen
				pharmacometrics
				pharmacogenetics
				<u>Therapeutic drug monitoring of drugs in disease conditions (cardiovascular and cns disorders)</u>
				Tdm of meropenem
				Tdm of lithium
				Nomogram
				Structural base model
		PHARM.D & PB	IV & I	
				test associated with cardiac disorders

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

				Clinical pharmacy introduction and scope
				Therapeutic drug monitoring
				ADR management and monitoring
				pharmacovigilance
				Culture and sensitivity test
				Thyroid function test
				ADR management and monitoring
				Quality in clinical pharmacy services
				DIC
				PIC
				Drug therapy monitoring

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Name of the course	Year/Semester	Topic
Aji varghese	Pharmacy practice	PHARM.D	IV pharmd and I PB	Test associated with cardiac disorder

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
		M.Pharm	II SEM	Modeling Random effects
				Mixture model stimation methods
				Covariate screening methods
				Testing the model assumptions
				Model misspecification and validation
				Simulation of dosing regimen and dosage recommenations

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Aji varghese	Pharmacy practice	Pharmacy practice	B.PHARM	IV YEAR	Therapeutic drug monitoring
					ADR management and monitoring
		Cpk& tdm	M.PHARM	II SEM	Multiple dosing
					Building blocks
					Tdm of lidocaine
					Tdm of digoxin
					Tdm of amiodarone
					Loading and maintenance dose
					Iv to oral route
					Determination of dose and dosing interval
					Designing of dosage regimen
					pharmacometrics

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					pharmacogenetics
					<u>Therapeutic drug monitoring of drugs in disease conditions (cardiovascular and cns disorders)</u>
					Tdm of meropenem
					Tdm of lithium
					Nomogram
					Structural base model
					Determination of dose and dosing interval
					Designing of dosage regimen
					pharmacometrics
					pharmacogenetics
					<u>Therapeutic drug monitoring of drugs in disease conditions (cardiovascular and cns disorders)</u>

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					Tdm of meropenem
					Tdm of lithium
	Clinical pharmacy	PHARM.D & PB	IV &I		
				test associated with cardiac disorders	
				Clinical pharmacy introduction and scope	
				Therapeutic drug monitoring	
				ADR management and monitoring	
				pharmacovigilance	
				Culture and sensitivity test	
				Thyroid function test	
				ADR management and monitoring	
				Quality in clinical pharmacy services	
				DIC	
				PIC	
				Drug therapy monitoring	

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Subjects	Name of the	Year/Semester	Title of PPT
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ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

			course		
Alfet Raju Anthraper	Pharmacy Practice	Pathophysiology	Pharm D	Second	Introduction to pathophysiology
					Cell & cell injury
					Reversible cell injury
					Irreversible cell injury
					Morphology of reversible cell injury
					Intracellular accumulations
					Pigments
					Morphology of irreversible cell injury
					Cellular adaptations
					Abnormalities in lipoproteinemia
					Glycogen infiltration and glycogen storage diseases

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

					Pathophysiology of acute inflammation
					Chemical mediators of inflammation
					Inflammatory cells
					Chronic inflammation
					Factors affecting inflammation
					Healing & repair
					Immune system
					HLA system
					Transplant rejection
					Stages of cancer
					Myocardial infarction
					CCF
					Diabetes
					Tuberculosis
					Bacillary dysentery

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					Dysentery
					Typhoid fever
					UTI
					Pneumonia
					Gonorrhoea
					HIV
					Syphilis
					PUD
					CRF
					Kidney failure
					ARF
					COPD
					Asthma
					Vitamins
					PEM
					Etiology of cell injury
					Introduction to cell

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

		Biostatistics & Research Methodology	Pharm D	Fourth	Cohort study
					SPSS
					Observational study
					Cross sectional study
					SAS
					Epi info
					Introduction to research
		Pharmacoepidemiology & Pharmacoeconomics	Pharm D	Fifth	Markov model
					Applications of software's
					Case control studies
					Metanalysis
					RLS
					PEM
					Automated Databases

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					Spontaneous Reporting System
					Cohort study
					Cross sectional study
					Introduction to pharmacoepidemiology
					Measurement of outcomes
					Risk
		Principles of quality use of medicines	M Pharm	Second semester	QUM in ambulatory patients
					Communication in QUM
					Guidelines of QUM
					EBM
					ADR
					Spontaneous reporting
					QUM in hospital settings

ST JAMES COLLEGE OF PHARMACEUTICAL SCIENCES, CHALAKUDY

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Subjects	Name of the course	Year/Semester	Topic
Alfet Raju Anthraper	Pharmacy practice	Pathophysiology	PharmD	2019 batch/second	Introduction to cell injury
					pathophysiology
		Biostatistics & Research Methodology	Pharm D	2018 batch/Fourth	Introduction to research
					Types of research
		Pharmacoepidemiology & Pharmacoeconomics	Pharm D	2016 batch/Fifth	Introduction to pharmacoepidemiology

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Subjects	Name of the course	Year/Semester	Title of seminar
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Agnus Baiju	Pharmacy practice	Principles of quality use of medicines	MPharm	Second	Professional responsibilities of pharmacist in regulatory aspects of QUM
Anju joy					Evaluation process in QMC
Christy Babu					Role of health care professional in promoting QUM strategies to promote QUM
Julia Wilson					Quality use of medicine in geriatric and paediatric population
Lipitha					Regulatory aspects of QUM in India
Manjusha Mohanan					Regulation of OTC
Agnus Baiju				Pharmacoepidemiology and pharmacoconomics	
Anju joy					HRQOL

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Christy Babu					Record linkage System
Snehamol Vincent Maria Sony Jeena Saji Elsa Poulson Shaleena Ann		Scientific Presentation	PharmD	Second	Universal T cell mediated cancer therapy
Jeenmariya Davis Jiya Jose Bhagyalakshmi .K.S Anna Shajan Aldrin Johnson					Brain fingerprinting
Alba Annexe Resy K Anjusha K Johnson Jefina Jaison Angel Nixen					Car -T cell therapy
Sneha Davis					How do cells sense and adapt to oxygen

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<p>Annsumin Mathew</p> <p>Ansa Joby</p> <p>Sona Jose</p> <p>Shana Parveen</p>					availability
<p>Milin Biju Kochattu</p> <p>Sandra .S.</p> <p>Farha.N.A</p> <p>Nidhin James</p>					Nanotechnology :the future of medicine
<p>Jismy Johny</p> <p>Sikha Jolly</p> <p>Treesa Mariya</p> <p>Sahala .P.A</p>					Smart inhalers
<p>Anna Thomas</p> <p>Avin Shajy</p> <p>Asha Maria Xavier</p> <p>Aneena George</p> <p>Christeena Varghese</p>					Aurora

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Sreelakshmi .P.S Teena Thariyan Vinil Vincent Greeshma Jose Sharafa					Dark matter and dark energy
Afra Mohammed Aidhal Varghese Jismol Benny Nimisha Nelson Josmy Johnson Robin Babu					Nano Drug Candidates kills triple negative breast cancer cells
Agathamol Eldose Ria Davis Piyusha Banerji Rosemol Minu Tojan					Artificial neurons in silicon chip

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Nayana T Earaly					
Anmaria Benoy Irene Jose Jins Raju Jesna Jacob Jaito Toji					Phage therapy:post antibiotic era
Flaby Davis Mariya Wilson Athira Paulson Amrutha Antony Angela Mariam Reji					Pharmacoepidemiologic study of ACEI/ARBS in COVID19 patients
Christy Anna Abraham Feby Ann Abraham Nancy Antony Nayana Mary Ranji Rupa Vijayakumar					Pearl culture
Chitra Paul		Project progress	MPharm	Fourth	setting up of an anticoagulant clinic in a

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					tertiary care hospital
Mable Baby					assessment of depression and diabetic distress in type 2 DM patients
		Journal club presentation			Frequency of depression in type 2 diabetes mellitus and an analysis of predictive factors
Chitra Paul					Novel Oral Anticoagulant versus Warfarin in Cancer Patients with Atrial Fibrillation: An 8-Year Population-Based Cohort Study

				Impact of QUM in E health
				Building blocks of QMC

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				Scheduling of regulations
				Prescribing in immune compromised and organ transplantation
				QUM in special population-paediatric population
				Strategies to promote QUM

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Alfet Raju Anthraper	Pharmacy practice	Pathophysiology	PharmD	Second	Stages of cancer
					Myocardial infarction
					CCF
					Diabetes
					Tuberculosis
					Bacillary dysentery
					Dysentery
					Typhoid fever

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					UTI
					Pneumonia
					Gonorrhoea
					HIV
					Syphilis
					PUD
					ALD
					Cirrhosis
					IBD
					CRF
					Kidney failure
					ARF
					COPD
					Asthma
					Vitamins
					PEM
					Etiology of cell injury

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					Introduction to cell
					Reversible cell injury
					Cellular adaptations
					Morphology of irreversible cell injury
					Pigments
					Intracellular accumulations
					Morphology of reversible cell injury
					Irreversible cell injury
					Abnormalities in lipoproteinemia
					Glycogen infiltration and glycogen storage diseases
					Pathophysiology of acute inflammation
					Chemical mediators of inflammation

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					Inflammatory cells
					Chronic inflammation
					Factors affecting inflammation
					Healing & repair
					Immune system
					HLA system
					Transplant rejection
		Biostatistics & Research Methodology	Pharm D	Fourth	Cohort study
					SPSS
					Observational study
					Cross sectional study
					SAS
					Epi info
					Introduction to research
		Pharmacoepidemiology & Pharmacoeconomics	Pharm D	Fifth	Markov model

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					Applications of software's
					Case control studies
					Metanalysis
					RLS
					PEM
					Automated Databases
					Spontaneous Reporting System
					Cohort study
					Cross sectional study
					Introduction to pharmacoepidemiology
					Aims and applications of pharmacoepidemiology
					Measurement of outcomes
					Risk

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		Principles of quality use of medicines	M Pharm	Second semester	QUM in ambulatory patients
					Communication in QUM
					Guidelines of QUM
					EBM
					ADR
					Spontaneous reporting
					QUM in hospital settings

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Happy Thomas	Pharmacy practice	B. Pharm	Fourth year	Hospital, hospital pharmacy, PTC, budget preparation, breast cancer, cirrhosis, patient counselling, TDM, hematological, liver, kidney function tests, DDS, ADR, hospital formulary, medication adherence, community pharmacy, drug store management and inventory control, clinical

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				pharmacy
		B. Pharm	Seventh semester	Hospital, hospital pharmacy, PTC, budget preparation, ADR, community pharmacy, DDS, hospital formulary, TDM, medication adherence, patient medication history interview, community pharmacy management, DIC, patient counselling, clinical pharmacy, OTC, drug store management and inventory control, investigational use of drugs, interpretation of laboratory data
		Pharm. D	Second year	Community pharmacy, community pharmacy management, prescription, inventory control, pharmaceutical care, patient counselling, medication adherence, health screening, OTC medication, health education, responding to symptoms of minor ailments, essential drug concept and rational drug use, code of ethics of pharmacists

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Happy Thomas	Pharmacy practice	B. Pharm	Seventh semester	Hospital, hospital pharmacy, DDS, patient counselling, budget and its preparation
		Pharm. D		Community pharmacy, roles and responsibilities

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				of community pharmacist, patient counselling
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8. LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Happy Thomas	Pharmacy practice	Pharmacy practice	B. Pharm	Seventh semester	Hospital, hospital pharmacy, DDS, patient counselling, budget and its preparation
		Community pharmacy	Pharm. D	Second year	Community pharmacy, roles and responsibilities of community pharmacist, patient counselling

8LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the	Year/Semester	Topic

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			course		
Krishnaprabha.C	Pharmacy Practice	Clinical Toxicology	PharmD	4 th Year & 1 st PharmD (PB)	HEAVY METALS: -Arsenic
					Mercury
					Lead
					Iron
					Copper
					Antidote & its Clinical Applications
					Toxicokinetics
					ALCOHOL: -Ethanol
					Methanol
					HYDROCARBONS:-Petroleum Products and PEG
					Poison Information Service centre
					Poison severity Score
					Stabilization-ABCD

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

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Name of Staff	Department	Subject	Name of the course	Year/ Semester	Topic
Krishnaprabha.C	Pharmacy Practice	Clinical Pharmacokinetics and TDM	PharmD	5 th Year and 2 nd Pharm D (PB)	TDM of drug used in Psychiatric conditions
					Bayesian Theory
					Adaptive method or Dosing with feed back
					Analysis of Population Pharmacokinetic data
					Pharmacogenetics
					Genetic Polymorphism in Drug metabolism: Cytochrome P-450 Isoenzymes
					Genetic Polymorphism in Drug Transport and Drug Targets
					Pharmacogenetic and pharmacokinetics/pharmacodynamic consideration
					Renal Impairment
					Pharmacokinetic considerations in renal impairment
					General approach for dosage adjustment in Renaldisease

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					Measurement of GFR and Crcl
					Dosage adjustment for uremic patients
					Effect of Hepatic disease on pharmacokinetics
					Individualization of drug dosage regimen(variability- Genetic, Age and Weight, disease, interacting drugs)
					Clinical Pharmacokinetics
					Nomogram and Tabulations in designing dosage regimen

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Dr. Grace Thomas	Dept. of Pharmacy Practice	Pharm.D PB	1 st year	NIL
		M.Pharm	2 nd Sem	Dosing in paediatric patients Drug dosing in pregnancy and lactation Drug dosing liver failure Extracorporeal removal of drugs TDM of carbazepine and sodium valproate Organ transplantations: Cyclosporine

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				<p>Methotrexate</p> <p>TDM for Meropenem</p> <p>5 FU AND Cisplatin</p> <p>Amitriptyline and Fluoxetine</p>
		B.Pharm	2nd Sem	<p>Introduction and Causes of cellular injury, Adaptive changes, Cell swelling, Intra cellular accumulation, Calcification, Enzyme leakage and Cell Death, Acidosis & Alkalosis, Electrolyte imbalance Inflammation, Mechanism of Inflammation</p> <p>Hypertension, congestive heart failure, ischemic heart disease Asthma, Chronic obstructive airways diseases.</p> <p>Acute and chronic renal failure, Anemia, Diabetes, thyroid diseases, disorders of sex hormones, Epilepsy, Parkinson's disease, stroke, depression, schizophrenia and Alzheimer's disease.</p> <p>Peptic Ulcer, Inflammatory bowel diseases, jaundice, hepatitis (A,B,C,D,E,F) alcoholic liver disease. Rheumatoid arthritis, osteoporosis and gout, Principles of Cancer: Meningitis, Typhoid,</p>

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				Leprosy, Tuberculosis Urinary tract infections AIDS, Syphilis, Gonorrhea
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Dr.Grace Thomas	Dept.of Pharmacy	M.Pharm(Pharmacy)	2 nd sem	Extra Corporeal removal of Drugs

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	Practice	Practice)		TDM of Meropenam
		B.Pharm	2 nd sem	Introduction to Pathophysiology AIDS Syphilis Gonorrhoea HTN IHD

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Agnus Baiju	Pharmacy Practice	M.Pharm	2 nd Sem	Modeling RandomEffects,ModelingCovariateRelationships
Anju Joy				MixtureModel,Estimation Methods
ChristyBabu				ModelBuildingTechniques,CovariateScreeningMethods
Julia Wilson				Testing the model assumptions,Precision of the parameter estimates and confidence intervals
Lipitha A				Model misspecification and violation of the model assumptions,Model Validation,

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Manjusha Mohan				Simulation of dosing regimens and dosing recommendations, Pharmacometrics software.
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Dr.Grace Thomas	Dept.of Pharmacy Practice	Pharmacotherapeutics I and II	Pharm.D PB	1 st year	Revision Classes: Renal dialysis ,AIDS,Gonorrhoea,Malaria,Syphilis,IHD
		Clinical pharmacokinetics and therapeutic drug monitoring	M.Pharm	2 nd sem	Dosing in paediatric patients Drug dosing in pregnancy and lactation Drug dosing liver failure Extracorporeal removal of drugs TDM of carbamazepine and sodium valproate Organ transplantations: Cyclosporine Methotrexate ,5 FU AND Cisplatin Amitriptyline and Fluoxetine
		Pathophysiology	B.Pharm	2 nd sem	Causes of cellular injury, Adaptive changes,Cell swelling, Intra cellular

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					<p>accumulation, Calcification, Enzyme leakage and Cell Death, Acidosis & Alkalosis, Electrolyte imbalance Inflammation, Mechanism of Inflammation</p> <p>Asthma, Chronic obstructive airways diseases.</p> <p>Acute and chronic renal failure, Anemia, Diabetes, thyroid diseases, disorders of sex hormones, Epilepsy, Parkinson's disease, stroke, depression, schizophrenia and Alzheimer's disease.</p> <p>Peptic Ulcer, Inflammatory bowel diseases, jaundice, hepatitis (A, B, C, D, E, F) alcoholic liver disease. Rheumatoid arthritis, osteoporosis and gout, Principles of Cancer: Meningitis, Typhoid, Leprosy, Tuberculosis Urinary tract infections</p>
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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

NAME OF STAFF	DEPARTMENT	NAME OF THE COURSE	YEAR/SEMESTER	TITLE OF PPT
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MARIA GEORGE	PHARMACY PRACTICE	PharmD	Vth PharmD&IInd PharmD PB	<ol style="list-style-type: none">1. CDM2. ANDA3. Clinical trial agreement4. Clinical trial registry5. Overview of regulatory environment in India6. Overview of regulatory environment in Europe7. Overview of regulatory environment in US8. Overview of GCP9. Principles of ICH GCP10. Clinical research past present future11. Introduction to clinical research12. ICH GCP guidelines13. Roles and responsibilities of investigator14. Challenges in the implementation of GCP guidelines15. ICMR code16. Roles and responsibilities of sponsor
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				<p>17. Roles and responsibilities of auditor</p> <p>18. Roles and responsibilities of regulatory authority</p> <p>19. Roles and responsibilities of CRA</p> <p>20. Helsinki declaration</p> <p>21. Nuremberg code</p> <p>22. Milestones in the evolution of GCP guidelines</p> <p>23. Schedule Y</p> <p>24. Case report form</p> <p>25. Protocol</p> <p>26. Safety monitoring in clinical trial</p> <p>27. Informed consent process</p> <p>28. NDA</p> <p>29. IND</p> <p>30. Roles and responsibilities of clinical research coordinator</p>
		MPHARM	2 ND SEMESTER	1. Applications of pharmacoepidemiology

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				<ol style="list-style-type: none"> 2. Aim and scope of pharmacoepidemiology 3. Medication adherence measurements 4. Concept of risk 5. Meta-analysis models 6. Outcome measures in PE 7. Case report and case series 8. Elements of cohort study 9. Cross sectional study 10. Case control study 11. Spontaneous reporting system 12. Effect in population
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

NAME OF STAFF	DEPARTMENT	NAME OF THE COURSE	YEAR/SEMESTER	TOPIC
MARIA GEORGE	PHARMACY PRACTICE	PharmD	Vth PharmD&IInd PharmD PB	<ol style="list-style-type: none"> 1. Introduction to clinical research 2. Roles and responsibilities of investigator

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				<ol style="list-style-type: none">3. Challenges in the implementation of GCP guidelines4. Nuremberg code5. Roles and responsibilities of sponsor6. Roles and responsibilities of auditor7. Roles and responsibilities of regulatory authority8. Milestones in the evolution of GCP guidelines9. Roles and responsibilities of CRA10. Helsinki declaration11. Nuremberg code12. ANDA13. Clinical trial agreement14. Clinical trial registry15. Overview of regulatory environment in India16. Overview of regulatory environment in Europe17. Overview of regulatory environment in US18. Overview of GCP19. Principles of ICH GCP
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				20. Clinical research past present future 21. ICH GCP guidelines
		MPHARM	2 ND SEMESTER	1. Applications of pharmacoepidemiology 2. Aim and scope of pharmacoepidemiology

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Afra Mohammed Aidhal Arghese Jismol Benny Nimisha Nelson Josmy Johnson Robin Babu	Pharmacy Practice	Pharm D	Vth PharmD & II PharmD PB	Nano drug candidates kills triple negative breast cancer cells

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Agathamol Eldhose				Artificial neurons in silicon chip
Ria Davis				
Piyusha Banerji				
Rose Mol				
Minu Tojan				
Nayana T Earaly				
Sreelakshmi P S				Dark matter and dark energy
Teena Thariyan				
Vinil Vincent				
Greeshma Jose				
Sharafa Navar C A				
Anna Thomas				Aurora
Avin Shajy				
Asha Maria Xavier				
Aneena George				
Christeena Varghese				

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Anmaria Benoy Irene Jose Jins Raju Jesna Jacob Jaito Toji				Phage therapy:post antibiotic era
Christy Ann Abraham Feby Ann Abraham Nancy Antony Nayana Mary Ranji Rupa Vijayakuma			Maria Wilson Flaby Davis Athira Paulson Amrutha Antony Angela Mariam Reji	Pearl culture Pharmacoepidemiologic study on ACEI/ARBS in covid 19 patients
		MPHARM	2 nd Semester Christy	Record linkage system
			Manjusha Mohanan	Dur
			Agnus Baiju	Odds ratio

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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

NAME OF STAFF	DEPARTMENT	SUBJECT	NAME OF THE COURSE	YEAR/SEM ESTER	TOPIC
Maria George	Pharmacy Practice	Clinical Research	Pharm D	Vth PharmD & IInd PharmD PB	<ol style="list-style-type: none">1. CDM2. Abbreviated new drug application3. Clinical trial agreement4. Clinical trial registry5. Reulatory enviornment in India6. Reulatory enviornment in Europe7. Reulatory enviornment in US8. Overview of GCP9. Principles of ICH GCP10. Clinical research past present future11. Introduction to clinical research12. ICH GCP guidelines13. Investigator14. Challenges in the implementation of

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					<p>GCP guidelines</p> <p>15. ICMR code</p> <p>16. Schedule Y</p> <p>17. Standard operating procedures</p> <p>18. Sponsor</p> <p>19. Auditor</p> <p>20. Regulatory authority</p>
		<p>PHARMACO EPIDEMIOLO GY AND PHARMACO ECONOMICS</p>	<p>M PHARM</p>	<p>2ND semester</p>	<p>1. Applications of pharmacoepidemiology</p> <p>2. Aim and scope of pharmacoepidemiology</p> <p>3. Medication adherence measurements</p> <p>4. Concept of risk</p> <p>5. Meta-analysis models</p> <p>6. Outcome measures in pe</p> <p>7. Case report and case series</p> <p>8. Elements of cohort study</p> <p>9. Cross sectional study</p> <p>10. Case control study</p>

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					<p>11. Spontaneous reporting system</p> <p>12. Effect in population</p> <p>13. Pharmacoeconomics-outcome measurement</p> <p>14. Outcome of drug use</p>
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LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Aravind R	Pharmacognosy	Herbal Drug Technology	B. Pharm	Fifth Semester	Herbs as raw materials
					Basic principles involved in Ayurveda, Siddha, Unani and Homeopathy. Preparation and standardization of Ayurvedic formulations viz Aristas and Asavas, Ghutika, Churna, Lehya and Bhasma.
					Nutraceuticals General aspects, Market, growth, scope and types of products available in the market.
					Herbal Cosmetics Sources and

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					<p>description of raw materials of herbal origin used in herbal cosmetics</p>
					<p>Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs</p>
					<p>Stability testing of Natural products</p>
					<p>Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs</p>
					<p>General Introduction to Herbal Industry Herbal drugs industry: Present scope and future prospects</p> <p>A brief account of plant-based industries and institutions involved in work on medicinal and aromatic plants in India</p>
		Herbal and Cosmetic Analysis	M. Pharm	Second Semester	<p>1. Herbal remedies- Toxicity and Regulations:</p>
					<p>2. Herbal drug-drug interaction</p>
					<p>3. Evaluation of cosmetic products:</p>

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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Aravind R	Pharmacognosy	Herbal drug technology	Fifth Semester	Herbs as raw materials
				Basic principles involved in Ayurveda, Siddha, Unani and Homeopathy. Preparation and standardization of Ayurvedic formulations viz Aristas and Asavas, Ghutika, Churna, Lehya and Bhasma.
				Nutraceuticals General aspects, Market, growth, scope and types of products available in the market.
				Herbal Cosmetics Sources and description of raw materials of herbal origin used in herbal cosmetics
				Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs
				Stability testing of Natural products
				Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs
				General Introduction to Herbal Industry Herbal drugs industry: Present scope and future prospects

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				A brief account of plant-based industries and institutions involved in work on medicinal and aromatic plants in India
Aravind R	Pharmaceutical Analysis	M. Pharm	Second semester	Herbal remedies- Toxicity and Regulations:
				Herbal drug-drug interaction
				Evaluation of cosmetic products:
				WHO and AYUSH Guidelines for the Quality assessment of Herbal Products

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Aravind R	Pharmacognosy			Herbs as raw materials
				Basic principles involved in Ayurveda, Siddha, Unani and Homeopathy. Preparation and standardization of Ayurvedic formulations viz Aristas and Asavas, Ghutika, Churna, Lehya and Bhasma.
				Nutraceuticals General aspects, Market, growth, scope and types of products available in the market.
				Herbal Cosmetics Sources and description of raw

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		B. Pharm	Sixth Semester	materials of herbal origin used in herbal cosmetics
				Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs
				Stability testing of Natural products
				Evaluation of Drugs WHO & ICH guidelines for the assessment of herbal drugs
				General Introduction to Herbal Industry Herbal drugs industry: Present scope and future prospects
				A brief account of plant-based industries and institutions involved in work on medicinal and aromatic plants in India
	Pharmaceutical Analysis	M. Pharm	Second Semester	Herbal remedies- Toxicity and Regulations:
				Herbal drug-drug interaction
				Evaluation of cosmetic products:
				WHO and AYUSH Guidelines for the Quality assessment of Herbal Products

LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
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Aswathy K S	Pharmaceutical Analysis	M. Pharm	II Semester	Indian Standard specification laid down for sampling and testing of Hair products and skin creams
Anjali P Johny				WHO and AYUSH guidelines for the standardization of herbal drugs
Beryl Abraham				ISI sampling and testing of various cosmetics in finished forms such as baby care products, skin care products, dental products, personal hygiene preparations, lips sticks
Mariya Thomas				Validation of Herbal Therapies
Maneesha Dinilkumar				Study of quality of raw materials and general methods of analysis of raw material used in cosmetic manufacture as per BIS
Roshitha K R				Indian and international patent law as applicable to herbal drugs and natural products and its protocol
Sujith Unnikrishnan				Adulterant Screening using modern analytical instruments

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
		Pharmacognosy & Phytochemistry	B.Pharm	Fourth Semester 2018	General introduction of carbohydrates, lipids, proteins.

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Krishna Priya K A	Pharmacognosy	I		batch	Carbohydrate containing drugs- honey,agar,starch,tragacanth
					Acacia
					Castor oil
					Chaulmoogra oil,wool fat and bees wax
					Fibres-cotton,jute,hemp
					Gelatin,casein
					Alternative systems of medicine
					Homeopathy,unani
					Sidha,chinese
					Cultivation- introduction,soil,propagation methods
					Collection,harvesting,processing,drying and storage of crude drugs
					Tissue culture
					Allergens-types
					Method of preparation of allegens and its standardization

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					Teratogens
					Plant hormones
					Hallucinogens-tobacco,cannabis
					Introduction of secondary metabolites
					Tannins
					Glycosides
					Resins
					Alkaloids
					Volatile oils
					Flavonoids
					Micrometry
					Biological evaluation
					Chemical evaluation
Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Ktishna Priya K A	Pharmacognosy	Pharmaceutical Jurisprudence	Pharm D	III year,2017 batch	National Drug Policy
					DPCO

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					Medicinal and toilet preparation act
					Essential commodities act
					NDPS act revision note
					Prevention of cruelty towards animal s act revision note
					Patent act revision note
					Drugs and magic remedies act revision note
					Pharmacy act revision note
					D&C ACT revision note

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Reshma C Varkey	Pharmacognosy	Pharmacognosy and Phytopharmaceuticals	2 nd yr	Detailed study of lipids, proteins, study of cell wall constituents and cell inclusions, study of natural pesticides, study of volatile oil, study of surgical fibers and sutures

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		Environmental Sciences	2 Sem	Natural resources, Mineral resources, salient features of ecosystem, desert and aquatic ecosystem, terrestrial biomes, el Niño effects, ozone depletion and global warming, air pollution , water pollution , soil pollution ,biomedical waste management and pharmaceutical waste management, CAMPA and Aichi Targets , protected areas
		Herbal and Cosmetics Analysis	2 nd Sem	Regulatory requirements for setting herbal drug industry, Monographs of Herbal drugs: Study of monographs of herbal drugs and comparative study in IP, USP, Ayurvedic Pharmacopoeia, American herbal Pharmacopoeia, British herbal Pharmacopoeia, Siddha and Unani Pharmacopoeia,

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Reshma C Varkey	Pharmacognosy	Pharmacognosy and Phytopharmaceuticals	2 nd yr	History and Scope of Pharmacognosy, Classification of crude drugs
		Pharmacognosy and Phytochemistry IV	V Sem	Modern methods of extraction

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LIST OF STUDENTS SEMINARS THROUGH ZOOM

Name of student	Department	Name of the course	Year/Semester	Title of seminar
Reshma C Varkey	Pharmacognosy	Herbal and Cosmetic Analysis	2nd Sem	Methods of analysis of raw materials used in cosmetics as per BIS, Adulterant screening using modern analytical methods, Patent and herbal drugs , Validation to herbal therapies, Indian standard specification laid down for sampling and testing of cosmetics, Standardization of herbal drugs,

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Reshma C Varkey	Pharmacognosy	Pharmacognosy and Phytopharmaceuticals	Pharm D	2nd year	Detailed study of lipids, proteins, study of cell wall constituents and cell inclusions, study of natural pesticides, study of volatile oil, microscopical and powder microscopy of crude drugs, study of surgical fibres and sutures
		Environmental Science	B Pharm	2nd Sem	Natural resources, Mineral resources, salient features of ecosystem, desert and aquatic ecosystem, terrestrial biomes, el Niño effects, ozone depletion and global warming, air pollution , water pollution , soil pollution ,

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					biomedical waste management and pharmaceutical waste management , CAMPA and Aichi Targets , protected areas
		Herbal and Cosmetics Analysis	M.Pharm	2nd Sem	Introduction, types of adulteration/substitution of herbal drugs, Causes and Measure of adulteration, Sampling Procedures determination of foreign matters, DNA fingerprinting techniques in identification of drugs of natural origin, Determination of heavy metals pesticide content and microbial contamination, Regulatory requirements for setting herbal drug industry, Global marketing management, Indian and international patent law as applicable to herbal drugs and natural products and its protocol, Effect of herbal medicine on clinical laboratory testing, Adulterant Screening using modern analytical instruments, Regulation and dispensing of herbal drugs, Stability testing of natural products, protocol. Monographs of Herbal drugs: Study of monographs of herbal drugs and comparative study in IP, USP, Ayurvedic Pharmacopoeia, American herbal Pharmacopoeia, British herbal Pharmacopoeia, Siddha and Unani Pharmacopoeia, WHO guidelines in quality assessment of herbal drugs
		Pharmacognosy and Phytochemistry IV	B.Pharm	V SEM	Modern method of extraction ,isolation and purification techniques, chromatographic techniques

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		Pharmacognosy and Phytopharmaceuticals	Pharm D	2nd yr	History and Scope of Pharmacognosy, Classification of crude drugs , study of cell wall constituents and cell inclusions
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LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT
Asa Samuel	Pharmacology	B. Pharm	4th Year	Anticancer drugs, Macrolide antibiotic
		B.Pharm	6th Semester	Anticancer drugs, Macrolide antibiotic
		Pharm D	1st Year	Parts of brain, spinal cord.

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH INSTOCAMPUZ

Name of staff	Department	Name of the course	Year/Semester	Topic
Asa Samuel	Pharmacology	B. Pharm	6rh semester	Carminative
		Pharm D	1st Year	Rectum, defecation.

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic

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Asa Samuel	Pharmacology	Pharmacology II	B. Pharm	4th Year	antitubercular, antifungal, antiviral, anticancer drugs, Macrolide, Oxazolidinone antibiotic, Antiamoebic drugs, treatment of UTI.
		Pharmacology III	B. Pharm	6th Semester	Chemotherapy of different microbial infections, antibiotics, stem cell therapy, gene therapy, Immunopharmacology, drugs acting on skin, GIT and respiratory system.
		Human Anatomy and physiology	Pharm D	1st Year	Urinary system, Osseous system, central nervous system, Gastrointestinal system, sports physiology, reproductive system.

LIST OF PPT USED BY STAFF MEMBERS TO TAKE CLASS

Name of staff	Department	Name of the course	Year/Semester	Title of PPT (converted to pdfs)
Ann shine paul	Pharmacology	Pharm. D	Second year (2018 batch)	Sedatives & hypnotics
				Anaesthetics
				Skeletal muscle relaxants
				Opioids

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				Psychopharmacological agents
				Pharmacokinetics- absorption & distribution
				Metabolism & elimination
				Cardiovascular disorders
				Neurohumoral transmission
				Terms of toxicity & general pharmacology
				Factors modifying drug action
				Hypertension
				Angina pectoris
				Hyperlipidemia
				Arrhythmia
				CHF
		B. Pharm	Fourth semester (2018 batch)	Sedatives & hypnotics
				Anaesthetics
				Skeletal muscle relaxants
				Opioids
				Alcohol

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				Psychopharmacological agents
				Antiparkinson's agent
				Pharmacokinetics- absorption & distribution
				Metabolism & elimination
				Chronopharmacology
				Neurohumoral transmission
				Cholinergics
				Anticholinergics
				Adrenergics
				Adrenergic alpha blockers
				Beta blockers
				Mydriatics & miotics
				Glaucoma
				Drug discovery phase
				Preclinical & clinical phase
				Clinical trials
				Pharmacovigilance

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		B. Pharm	Fifth semester (2018 batch)	Hypertension
				Angina pectoris
				Hyperlipidemia
				Arrhythmia
				CHF

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOM

Name of staff	Department	Name of the course	Year/Semester	Topic
Ann shine paul	Pharmacology	Pharm. D	Second year (2018 batch)	Revision- Anaesthetics, antiarrhythmic agents
				Revision- NSAIDS, opioids, alcohol
				Revision- Psychotropic drugs
				Revision- Cholinergic system
				Revision- Adrenergic system
				Revision- ANS
				Revision- Respiratory system
				Revision- Autocoids

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		B. Pharm	Fourth semester (2018 batch)	Discovery phase
				Preclinical and clinical phase
				Pharmacovigilance (2)
				Receptors
				Revision on general pharmacology (3)
		Pharm. D	Second year (2019 batch)	Introduction
				Introduction to toxicity studies
		B. Pharm	Fifth semester (2018 batch)	Introduction
				Antihyperlipidemic drugs
				Hypertension & angina pectoris
				CHF & arrhythmia

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Ann shine paul	Pharmacology	Pharmacology -I	Pharm. D	Second year (2018 batch)	Sedatives & hypnotics
					Anaesthetics

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					Skeletal muscle relaxants
					Opioids
					Psychopharmacological agents
					Pharmacokinetics- absorption & distribution
					Metabolism & elimination
					Cardiovascular disorders
					Neurohumoral transmission
					Terms of toxicity & general pharmacology
					Factors modifying drug action
					Hypertension
					Angina pectoris
					Hyperlipidemia
					Arrhythmia
					CHF
		Pharmacology -I	B. Pharm	Fourth	Sedatives & hypnotics

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				semester (2018 batch)	Anaesthetics
					Skeletal muscle relaxants
					Opioids
					Alcohol
					Psychopharmacological agents
					Antiparkinson's agent
					Pharmacokinetics- absorption & distribution
					Metabolism & elimination
					Chronopharmacology
					Neurohumoral transmission
					Historical landmarks, scope of pharmacology, sources of drugs
					General pharmacology terms
					Factors modifying drug action
					Cholinergics
					Anticholinergics

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					Adrenergics
					Adrenergic alpha blockers
					Beta blockers
					Mydriatics & miotics
					Glaucoma
					Drug discovery phase
					Preclinical & clinical phase
					Clinical trials
					Pharmacovigilance
					Revision- adrenergics
					Revision- ophthalmic agents
					Revision- skeletal muscle relaxants
					Revision- Anaesthetics
					Revision- sedatives & hypnotics
					Revision- epilepsy
		Pharmacology -I	Pharm. D	Second year (2019 batch)	Scope of pharmacology
					Toxicity studies

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		Pharmacology -II	B. Pharm	Fifth semester (2018 batch)	Hypertension
					Angina pectoris
					Hyperlipidemia
					Arrhythmia
					CHF

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH GOOGLE CLASSROOM

Name of staff	Department	Subject	Name of the course	Year/Semester	Topic
Ms.Salu Martin	Department of Pharmacology	Human anatomy and physiology	B.Pharm	Second semester	Nervous system
		Human anatomy and physiology	B.Pharm	Second semester	Respiratory system
		Human anatomy and physiology	B.Pharm	Second semester	Urinary system
		Human anatomy and physiology	B.Pharm	Second semester	Digestive system
		Human anatomy and physiology	B.Pharm	Second semester	Endocrine system

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		Human anatomy and physiology	B.Pharm	Second semester	Genetics
		Human anatomy and physiology	B.Pharm	Second semester	Energetics
		Human anatomy and physiology	B.Pharm	Second semester	Reproductive system
		Pharmacology II	Pharm D	Third year	Recombinant DNA technology
		Pharmacology II	Pharm D	Third year	Mutation
		Pharmacology II	Pharm D	Third year	Tumor suppressor genes
		Pharmacology II	Pharm D	Third year	Oncogenes
		Pharmacology II	Pharm D	Third year	Genome mapping

LIST OF CLASSES CONDUCTED BY STAFF MEMBERS THROUGH ZOOMSS

Name of staff	Department	Name of the course	Year/Semester	Topic
Ms. Salu Martin	Department of Pharmacology	Pharm D	Third year	Anticoagulant
		Pharm D	Third year	Thrombolytics
		Pharm D	Third year	Anti-thrombolytics
		Pharm D	Third year	Antiplatelets

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