



BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY'S GROUP OF INSTITUTIONS-INTEGRATED CAMPUS

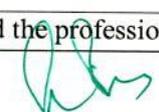
(Approved by A.I.C.T.E & P.C.I, New Delhi, Affiliated to JNTUH, Hyderabad)

Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

M .Pharmacy I&I Sem Course Outcomes for the Academic Year 2021-2022

S.No.	Year/Sem	Course Name	Course Outcomes
1	I/I	MODERN PHARMACEUTICS -1	CO1: To study about the preformulation parameters
			CO2 .To explain about formulation and development ,use of excipients in tablets and powders
			CO3:To explain about formulation and development ,use of excipients in micro encapsules and coating techniques
			CO4: To explain about formulation development of soft and hard gelatin capsules
			CO5: To study about the statistical design in different formulations
2	I/I	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS	CO1;To study about the factors affecting bioavailability and stability of the dosage form
			CO2: To study about the pharmacokinetics and drug disposition
			CO3: to explain the total study of absorption parameter
			CO4:TO study about the experimental study of absorption
			CO5: To explain the time dependent pharmacokinetics
3	I/I	DRUG REGULATORY AFFAIRS	CO1: Know the history of profession of pharmacy.
			CO2: Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations
			CO3:Understand the professional way of handling


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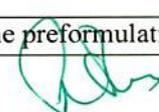
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			the prescription
			CO4 Preparation of various conventional dosage forms
			CO5: To Explain the total concept of semi solid dosages forms
4	I/I	COSMETICS AND COSMECEUTICALS	CO1: know the sources of impurities and methods to determine.
			CO2: impurities in inorganic drugs and pharmaceuticals
			CO3 understand the medicinal and pharmaceutical importance of inorganic compounds
			CO4: To explain the uses and preparations of pharmaceutical in organic compounds
			CO5: to explain the pharmaceutical application of radioactive substances.
5	I/I	RESEARCH METHODOLOGY AND IPR	CO1: Understand research problem formulation.
			CO2: Analyze research related information
			CO3: Follow research ethics
			CO4: Understand that today's world is controlled by Computer, Information Technology, but tomorrow world will be ruled by ideas, concept, and creativity.
			CO5: Understanding that when IPR would take such important place in growth of individuals & nation, it is needless to emphasis the need of information about Intellectual Property Right to be promoted among students in general & engineering in particular
6	I/I	MODERN PHARMACEUTICS – I LAB	CO1: To carry out the preformulation studies of


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			<p>solid dosage forms</p> <p>CO2: To study the effect of compressional force on tablet disintegration time</p> <p>CO3: To study the micromeritic properties of powders and granules</p> <p>CO4: To study the effect of particle size on dissolution of tablets</p> <p>CO5: To study the effect of binders on dissolution of tablets</p>
7	I/I	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS –LAB	<p>CO1: Analysis of dissolution by various data-kinetic modelling. 2. Calibration curve of different API's by UV/HPLC/HPTLC</p> <p>CO2: Dissolution of immediate release, sustained release and delayed release. 4. Evaluation of drug-protein binding analysis</p> <p>CO3: Assignment of numerical problems, one compartment and two compartment disposition, method of residuals, AUC and evaluation of pharmacokinetic parameters</p> <p>CO4: Calculation of Ka(absorption rate constant) absorption curve- Wagner nelson method , Loo-Riegel method</p> <p>CO5: Construction of IVIVC from the data 9. Calculation of Urinary Pharmacokinetics</p>
8	I/I	MODERN PHARMACEUTICS -II	<p>CO1: Pilot plant scale-up techniques used in pharmaceutical manufacturing</p> <p>CO2: Formulation development of parenteral dosage form</p> <p>CO3: Pharmaceutical Aerosols</p>

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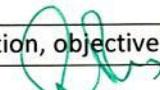
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			<p>CO4: Formulation approaches, preparation & method of manufacturing labelling & Q.C. of anti-ageing products, sun screen lotion and fairness creams</p> <p>CO5: Aseptic processing operation</p>
9	I/I1	ADVANCED DRUG DELIVERY SYSTEMS	<p>CO1: Fundamentals of controlled drug delivery systems, pharmacokinetic and pharmacodynamic basis of controlled drug delivery</p> <p>CO2: Design, fabrication, evaluation and applications of the following a. Implantable Therapeutic systems b. Transdermal delivery systems</p> <p>CO3: Biochemical and molecular biology approaches for drug delivery using following technologies a. Bioadhesive drug delivery systems b. Nasal drug delivery systems</p> <p>CO4: Biochemical and molecular biology approaches to control drug delivery of a. Liposomes b. Niosomes c. Microspheres</p> <p>CO5: Drug targeting to particular organs a. Delivery to lungs b. Delivery to the brain and problems involved</p>
10	I/I1	INDUSTRIAL PHARMACY	<p>CO1: A detailed study involving machinery and theory of Pharmaceutical unit operations like milling, mixing, filtration, granulation, drying and blending</p> <p>CO2: Study of the principles, production techniques in the large scale production of tablets, capsules, suspensions, liquid pharmaceuticals, ophthalmic products and sterile products.</p> <p>CO3: Production organization, objectives and</p>


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			<p>policies of good manufacturing practices, layout of buildings, services, equipments and their maintenance</p> <p>CO4: Effluent Testing and Treatment: Effluent analysis, specifications and preventive measures water of pollution, solid pollution, air pollution and sound pollution</p> <p>CO5: Regulatory basis, validation process for solid dosage forms, sterile products, and liquid dosage forms.</p>
12	I/I1	NUTRACEUTICALS	<p>CO1: Definitions of Functional foods, Nutraceuticals and Dietary supplements. Classification of Nutraceuticals</p> <p>CO2: Phytochemicals as nutraceuticals: Occurrence and characteristic features</p> <p>CO3: Free radicals, reactive oxygen species, production of free radicals in cells, damaging reactions of free radicals on lipids, proteins, Carbohydrates, nucleic acids</p> <p>CO4: Endogenous antioxidants – enzymatic and nonenzymatic antioxidant defence, Superoxide dismutase, catalase, Glutathione peroxidase, Glutathione Vitamin C, Vitamin E, αLipoic acid, melatonin</p> <p>CO5: Food Laws and Regulations; FDA, FPO, MPO, AGMARK. HACCP and GMPs on Food Safety. Adulteration of foods</p>
13	I/I1	MODERN PHARMACEUTICS -II LAB	<p>CO1: Scale up calculations from R&D to pilot plant for the following unit operations</p> <p>CO2: Preparation of Injectables, Ampoules & Vials</p>


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			CO3: Preparation of Ophthalmic products, Eye drops and Eye ointments
			CO4: Preparation of Dry powder Inhalations
			CO5: Formulation Development and Demonstration of function of DPI of marketed products
14	I/II	ADVANCED DRUG DELIVERY SYSTEM LAB	CO1: Study on diffusion of drugs through various polymeric membranes
			CO2: Formulation and Evaluation of sustained release Oral Matrix Tablet
			CO3: Formulation and Evaluation of sustained release Oral Reservoir System (
			CO4: Formulation and Evaluation of Microspheres / Microencapsules
			CO5: Study of in-vitro Dissolution of various SR products in market
15	II/1	SCALE UP AND TECHNOLOGY TRANSFER	CO1: Manage the scale up process in pharmaceutical industry
			CO2: Assist in technology transfer
			CO3: To establish safety guidelines, which prevent industrial hazards
			CO4: Importance, IQ, OQ, PQ for equipments
			CO5: Control of environmental pollution.
16	III1	COSMETIC SCIENCE	CO1: To study about the classification of cosmetics and cosmeceutical products
			CO2: Principles of formulation and building blocks of skin care and haircare products

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			CO3:to study about the role of herbs in cosmetics and analytical cosmetics
			CO4:To study about the principle of cosmetic evaluation
			CO5:To study about the cosmetic problems associated with hair and skin


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