



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

Humanity & Sciences I & II Sem Course outcomes for the Academic year 2020-2021

S.No	SUBJECT CODE	SUBJECT NAME	Course Outcomes
1	MA101BS	M-I	CO1:Identify the matrix representation of a set of linear equations and to analyze the solution of the system of equations
			CO2:Calculate the Eigen values and Eigen vectors
			CO3:Analyze the nature of sequence and series.
			CO4:Evaluate the improper integrals using Beta and Gamma functions
			CO5:Solve the extreme values of functions of two or three variables with/ without constraints.
2	EN105HS	English	CO1:Identify the importance of Raman Effect with technical vocabulary.
			CO2:Comprehend the importance of ancient architecture in India
			CO3:Develop interest to know the process of making Jeans.
			CO4:Examine the habits of eating in the form of essay writing
			CO5:Critically appreciate the latest technology

DIRECTOR
Brilliant Grammar School
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3	EN107HS	English Language and Communic ation Skills Lab	CO1:Develop their confidence while giving introduction, describing a place and giving directions.
			CO2:Use various functions of english like asking for and giving information inviting people for events/occations,and requesting people
			CO3:Narrate the past experiences and events in speaking and writin
			CO4:Express their views and opinions logically and appropriately in spoken and written format.
			CO5:Deliver logically organised speches and present them without hesitations.
4	AP202BS	Applied Physics	CO1:The student would be able to learn the fundamental concepts on Quantum behavior of matter in its micro state.
			CO2:The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fibre optics enable the students to apply to various systems like communications, solar cell, photo cells and so on.
			CO3:Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.
			CO4:The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.
5	AP205BS	Applied Physics Lab	CO1:Understand the practical knowledge Energy gap of P-N junction diode:Light emitting diode.
			CO2: Determine the energy gap of a semiconductor diode.
			CO3:Understand the practical knowledge Solar Cell,Photoelectric

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			effect, Hall effect.
			CO4: To study the Stewart – Gee's experiment.
			CO5: TO IDENTIFY Laser, Optical fibre characteristics.
6	PH102BS	Engineering Physics	CO1: understand about Newtonian mechanics in different coordinates
			CO2: understanding conservation of energy and charges in harmonic oscillation
			CO3: application of wave motion in one dimension of longitudinal and transverse nature
			CO4: knowledge of light propagation in different optical devices
			CO5: application of laser and fiber optics in required areas
7	PH105BS	Engineering Physics Lab	CO1: understand the practical knowledge of Melde's experiment, Torsional pendulum: & Coupled Oscillator
			CO2: understand the practical knowledge of Newton's rings, Diffraction grating & Dispersive power
			CO3: understand the practical knowledge of LCR Circuit
			CO4: understand the practical knowledge of LASER, Optical fiber
8	CH102BS	chemistry	CO1: Identify the knowledge of atomic, molecular and electronic changes, band theory related to conductivity.
			CO2: Comprehend the required principles and concepts of electrochemistry, corrosion and in understanding the problem of water

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			and its treatments
			CO3: Develop the the required skills to get clear concepts on basic spectroscopy and aplication to medical and other fields.
			CO4: Develop the knowledge of configurational and conformational analysis of molecules and reaction mechanisms..
			CO5: Examine the paracetamol and aspirin.
9	CH106BS	Engineering Chemistry Lab	CO1: Determination of total hardness of water by complexometric method using EDTA?HHH
			CO2: Estimation of an HCl by Conductometric titrations .
			CO3: Verification of freundlich adsorption isotherm-adsorption of acetic acid on charcoal.
			CO4: Develop the Synthesis of Aspirin and Paracetamol.
			CO5: Examination of chloride content of water by Argentometry .
10	EE103ES	Basic Electrical Engineering	CO1: To analyze and solve electrical circuits using network laws and theorems in DC circuits.
			CO2: To analyze and solve electrical circuits using network laws and theorems in AC circuits
			CO3: To understand and analyze basic Electric and Magnetic circuits
			CO4: To study the working principles of Electrical Machines

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			CO5:To introduce components of Low Voltage Electrical Installations
11	EE108ES	Basic Electrical Engineering Lab	CO1:Get an exposure to basic electrical laws.
			CO2:Understand the response of different types of electrical circuits to different excitations.
			CO3:Understand the measurement, calculation and relation between the basic electrical parameters
			CO4: Understand the basic characteristics of transformers and electrical machines.
			CO5:Understand how to measure voltage current, power in AC circuits.
			CO6:Understand the performance characteristics of generators & motors.
			CO7:Understand torque-speed characteristics of motors
12	ME204ES	Engineering Graphics	CO1:under stand the basic rules of engineering graphices
			CO2:construction of the conic curves,cycloide curves and scales
			CO3:under stand the ortho projection of points ,lines & planes
			CO4:under stand the ortho projection of solides and section of solides
			CO5:under stand the surface development and intersection of solides

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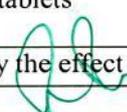
			CO6:evaluate the iso to ortho and ortho to iso projectiones
13	ME203ES	Engineering Mechanics	CO1:Determine resultant of forces acting on a body and analyze equilibrium of a body subjected to a system of forces
			CO2:Study the effect of friction in static and dynamic conditions
			CO3:Find the location of centroid and calculate moment of inertia of a given section.
			CO4:Understand the kinetics and kinematics of a body undergoing rectilinear, curvilinear, rotatory motion and rigid body motion
			CO5:Solve problems using work energy equations for translation, fixed axis rotation and plane motion and solve problems of vibration

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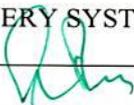
M.Pharmacy I&I Sem Course Outcomes for the Academic Year 2021-2022

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 the prescription
			CO4Preparation of various conventional dosage forms

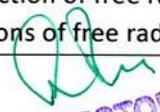
			CO5: To Explain the total concept of semi solid dosages forms
4	I/I	Cosmetics and cosmeceuticals	CO1: know the sources of impurities and methods to determine.
			CO2: impurities in inorganic drugs and pharmaceuticals
			CO3: understand the medicinal and pharmaceutical importance of inorganic compounds
			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 solid dosage forms
			CO2: To study the effect of compressional force on tablet disintegration time
			CO3: To study the micromeritic properties of powders and granules
			CO4: To study the effect of particle size on dissolution of tablets
			CO5: To study the effect of binders on dissolution


 DIRECTOR
 Brilliant Grammar School
 Educational Society's Group
 of Institutions-Integrated Campus (7C,
 Abdullapur (V), Abdullapurmet (M),
 R.R. Dist-501505.

			of tablets
7	I/I	APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS –LAB	CO1: Analysis of dissolution by various data-kinetic modelling. 2. Calibration curve of different API's by UV/HPLC/HPTLC
			CO2: Dissolution of immediate release, sustained release and delayed release. 4. Evaluation of drug-protein binding analysis
			CO3: Assignment of numerical problems, one compartment and two compartment disposition, method of residuals, AUC and evaluation of pharmacokinetic parameters
			CO4: Calculation of Ka(absorption rate constant) absorption curve- Wagner nelson method , Loo-Riegel method
			CO5: Construction of IVIVC from the data 9. Calculation of Urinary Pharmacokinetics
8	I/I1	MODERN PHARMACEUTICS -II	CO1: Pilot plant scale-up techniques used in pharmaceutical manufacturing
			CO2: Formulation development of parenteral dosage form
			CO3: Pharmaceutical Aerosols
			CO4: Formulation approaches, preparation & method of manufacturing labelling & Q.C. of anti-ageing products, sun screen lotion and fairness creams
			CO5: Aseptic processing operation
9	I/I1	ADVANCED DRUG DELIVERY SYSTEMS	CO1: Fundamentals of controlled drug delivery systems, pharmacokinetic and pharmacodynamic basis of controlled drug delivery
			CO2: Design, fabrication, evaluation and applications of the following a. Implantable Therapeutic systems b. Transdermal delivery systems
			CO3: Biochemical and molecular biology


 DIRECTOR
 Brilliant Grammar School
 Educational Society's Group
 of Institutions-Integrated Campus (705)
 Abdullapur (V), Abdullapurmet (M),
 R.R. Dist-501505.

			<p>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 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,</p>


DIRECTOR
 Brilliant Grammar School
 Educational Society's Group
 of Institutions-Integrated Campus (704)
 Abdullapur (V), Abdullapurmat (M),
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			Carbohydrates, nucleic acids
			CO4: Endogenous antioxidants – enzymatic and nonenzymatic antioxidant defence, Superoxide dismutase, catalase, Glutathione peroxidase, Glutathione Vitamin C, Vitamin E, α Lipoic acid, melatonin
			CO5: Food Laws and Regulations; FDA, FPO, MPO, AGMARK. HACCP and GMPs on Food Safety. Adulteration of foods
13	I/II	MODERN PHARMACEUTICS -II LAB	CO1: Scale up calculations from R&D to pilot plant for the following unit operations
			CO2: Preparation of Injectables, Ampoules & Vials
			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/I	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


 Director
 (02) Siddhant Grammar School
 Educational Society's Group
 of Institutions Integrated Campus (7C)
 Abdullapur (V), Abdullapurmet (M),
 R. B. Dist-501505.

			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
			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



DIRECTOR
 Brilliant Grammar School
 Educational Society's Group
 of Institutions-Integrated Campus (70),
 Abdullapur (V), Abdullapurmet (M),
 P. R. Dist.501502