



# Dr. K.V. Subba Reddy Institute of Pharmacy

(Approved by AICTE, P.C.I New Delhi & Affiliated to JNTUA Anantapuramu,  
MoU with Government General Hospital & KMC, Kurnool)

Opp. Dupadu Railway Station, Lakshmipuram (Po), N.H - 44, KURNOOL - 518 218, A.P. INDIA.

Website : www.drkvsrip.in

e-mail : principalkvsrip@gmail.com

Date : .....

## Department of Pharmacy

### LESSON PLAN

Faculty Name	:	<b>B.Aruna</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>HUMAN ANATOMY AND PHYSIOLOGY - I</b>	Code	:	<b>15R00105</b>
Year	:	<b>1-YEAR</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.PHARMACY</b>	Academic Year & Regulation	:	<b>2017-18 R15</b>

Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
1	Scope of anatomy and physiology, basic terminology used in these subjects	BB	2
2	Structure of cell, its components and their functions	BB	2
3	Body fluids, homeostasis. Tissues Elementary tissues of the human body: epithelial, connective, muscular and nervous tissues, their sub types and characteristics and functions.	BB & PPT	2
4	Urinary system: Various parts, structure & functions of the kidney and urinary tract. Physiology of urine formation.	PPT	4
<b>Total Number of Periods: 10</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
5.	Haemopoietic system: Composition and functions of blood, blood groups and their significance and mechanism of coagulation of blood.	BB	2
6.	Types of anemia, disorders related to blood components (Definitions only)	BB	2
7.	Respiratory System: Various parts of respiratory tract and their functions. mechanism and regulation of respiration, respiratory volumes and vital capacity	PPT	2

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8.	Disorders related to respiratory system (Definitions only)	BB	2
<b>Total Number of Periods:8</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
9	Reproductive Systems: Male and Female reproductive systems and their hormones	PPT & BB	2
10	Physiology of menstruation, coitus and fertilization.	PPT	2
11	Sex differentiation, spermatogenesis & oogenesis.	BB	2
12	Digestive System: Gross anatomy of the gastrointestinal tract,	PPT & BB	4
13	Disorders related to GIT (definitions only)		2
<b>Total Number of Periods: 12</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
14	a) Cardiovascular system: Basic anatomy and physiology of heart and blood vessels, circulation (Systemic, pulmonary, coronary).	PPT	2
15	Understanding of cardiac cycle, heart sounds and electrocardiogram.	PPT	2
16	Blood pressure and its regulation. Disorders related to Cardiovascular system (Definitions only)	PPT	2
17	b) Lymph and Lymphatic System: Composition, formation and circulation of lymph; Disorders related to lymphatic system (Definitions only)	BB	3
18	C) Study of sense organs: Structure and detailed functions of eye, ear, nose, tongue, skin	PPT	2
<b>Total Number of Periods: 11</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
19	a) Central Nervous System: Functions of different parts of brain and spinal cord.	PPT	2

  
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20	Structure of blood brain barrier and its importance. Neurochemical transmission in the central nervous system,	BB	2
21	Electroencephalogram, cranial nerves and their functions.	PPT	2
22	b) Autonomic Nervous System: Physiology and functions of autonomic nervous system. Mechanism of neurohumoral transmission in the A.N.S.	BB & PPT	4
23	C) ) Musculoskeletal system: Structure, composition and functions of skeleton, Joints,classification of joints and types of movements of synovial joints.	BB & PPT	4
<b>Total Number of Periods:14</b>			

**Total number of classes: 55**

Signature of the faculty

  
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## Department of PHARMACY

### LESSON PLAN

Faculty Name	:	<b>M.Sreeharini</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>PHARMACOGNOSY-I</b>	Code	:	<b>15R00204</b>
Year	:	<b>I year</b>	Semester	:	<b>II</b>
Degree & Branch	:	<b>B-PHARMACY</b>	Academic Year & Regulation	:	<b>2017-18 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
1	A) Definition, history, development and scope of Pharmacognosy	BB	3
2	B) Brief introduction to natural sources of drugs with examples: plants, animals, minerals, marine and microorganisms	PPT	5
<b>Total Number of Periods: 8</b>			
3	A) Classification of drugs of natural origin: Alphabetical, morphological, taxonomical, chemotaxonomic, pharmacological and chemical classification with suitable examples.	PPT & BB	5
4	B) Cultivation, collection, processing, drying, and storage of medicinal plants.	PPT	4
5	Factors influencing cultivation of medicinal plants.	PPT	2
6	Plant hormones and their applications. Improved methods of cultivation techniques: polyploidy, mutation and hybridization with reference to medicinal plants.	BB & PPT	4
7	WHO guidelines on Good Agricultural and Collection Practices (GACP) for medicinal plants	PPT	3
<b>Total Number of Periods: 18</b>			
8	A) Introduction, definition, classification, different chemical tests for the carbohydrates and derived products. Systemic Pharmacognostic study of the following carbohydrates and derived products: Acacia, Tragacanth, Agar,	PPT & BB	6



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9	Starch, Guar gum, Pectin, Isabgol and Honey.	BB	4
	<b>Total Number of Periods: 10</b>		
10	A) Definition, classification and properties of tannins.	PPT	2
11	Study of tannin containing drugs-Gambir, Black catechu, Galls, Myrobalan and Arjuna.	PPT	2
12	B) Study of source, preparation and identification of fibres used in pharmacy like cotton, silk, wool	BB	4
13	Nylon and polyester.	BB	1
	<b>Total Number of Periods: 9</b>		
14	Introduction, definition, classification, different physical, chemical properties	PPT	2
15	Extraction methods, chemical tests for the lipids.	BB	2
16	Systemic Pharmacognostic study of the following lipids: castor oil, cod liver oil, shark liver oil	PPT	5
17	Linseed oil, cocoa butter, kokum butter, bees wax, wool fat, hydnocarpus oil, Rice bran oil and Lard	BB	4
	<b>Total Number of Periods: 13</b>		

**Total number of classes: 58**

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## Department of PHARMACY

### LESSON PLAN

Faculty Name	:	<b>B.Aruna</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>PHARMACEUTICAL MICROBIOLOGY</b>	Code	:	<b>15R00304</b>
Year	:	<b>II-year</b>	Semester	:	<b>I-semester</b>
Degree & Branch	:	<b>B-PHARMACY</b>	Academic Year & Regulation	:	<b>2017-18 R15</b>

Lecture No.	Topics to be covered	PPT/BB/ OHP/e- material	No. of Hours	
<b>UNIT I</b>				
1	Origin, scope and discovery of spontaneous generations theory, contributions of Antonie Van Leeuwenhoek, Pasteur, Koch and Lister. Characterization and identification of microorganisms.	BB & PPT	3	
2	Diversity of Microorganisms: Prokaryotes versus eukaryotes – eukaryotic and prokaryotic cell structure, threedomains of life (bacteria, archaea and eukaryotics).	PPT	3	
3	Pharmaceutical significance of protozoa, algae, fungi, bacteria and viruses.	BB	2	
4	Characterization and identification of microorganisms.	BB	2	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/ OHP/e- material	No. of Hours	Relevant COs



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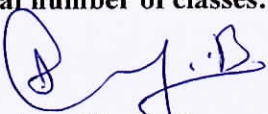
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Date : .....

UNIT II				
5	Nutritional requirements, Types of Nutrient media and growth conditions and Nutritional types based on energy source.	PPT & BB	4	
6	Isolation, cultivation (aerobic & anaerobic) and preservation of microorganisms, physiology of growth, bacterial growth curve, methods for determining bacterial numbers, mass and cell constituents	PPT & BB	5	
7	Exponential growth and generation time. Bacterial growth in batch and continuous culture (chemostat and turbidostat) synchronous growth.	PPT & BB	5	
<b>Total No. of Periods: 14</b>				
UNIT III				
8	General Concepts, Inhibition of growth and killing, sterilization and disinfection, antisepsis and sanitation, mode of action application & limitation of physical agents (moist and dry heat, radiation and filtration), chemical agents. Various types of disinfectants	PPT & BB	7	
9	Factors affecting sterilization and disinfection, evaluation of antimicrobial activity.	PPT	2	
10	Chemotherapeutic agents, mode of action and applications, drug resistance.	BB	2	

11	Official methods of sterility testing of pharmaceuticals and biosafety measures.	BB	2	
<b>Total No. of Periods:13</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV:</b>				
12	Epidemiology of Diseases: Study of etiology, diagnosis, source of infection, mode of transmission, immunization methods, prevention and control of the following diseases. Bacillary dysentery, diphtheria, tuberculosis,	PPT & BB	5	
13	Leprosy, cholera, typhoid, syphilis, gonorrhoea, tetanus, food poisoning and infective hepatitis.	BB	3	
14	Diagnostic tests of Malaria, Typhoid, Cholera, TB, Leprosy.	BB	3	
<b>Total No. of periods: 11</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V</b>				
15	a. Microbiological Assays: Principles and Methods involved in Assay of Antibiotics (penicillins, tetracyclines and streptomycins only)	PPT	3	
16	Vitamins (cyanocobalamin and riboflavin only), Amino acids (lysine and glutamic acid only) & Bio-Sensors in Analysis.	PPT	4	
17	b. Microbial Source & of various pharma products like Antibiotics, vitamins, Amino acids, solvents, enzymes & genetic engineered products etc.	PPT	4	
<b>Total No. of periods: 11</b>				

**Total number of classes: 59**

  
Signature of the faculty

  
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## Department of PHARMACY

### LESSON PLAN

Faculty Name	:	<b>Dr.B.V.Ramana</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>PHYSICAL PHARMACY – II</b>	Code	:	<b>15R00404</b>
Year	:	<b>II-year</b>	Semester	:	<b>II-semester</b>
Degree & Branch	:	<b>B-PHARMACY</b>	Academic Year & Regulation	:	<b>R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
<b>UNIT I</b>			
1	Solubility and distribution phenomena: Solvent-solute interaction, solubility of gases in liquids	BB	3
2	Solubility of liquids in liquids, solubility of solids in liquids, distribution of solutes in immiscible solvents.	PPT	3
3	Introduction to phenomena of diffusion: Fick's first law and second law.	BB	2
4	Complexation: Classification of complexes, methods of preparation, analysis and applications.	BB	3
<b>Total No. of Periods: 11</b>			
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours



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UNIT II				
5	Interfacial Phenomena: Liquid interfaces, spreading coefficient, measurement of surface and interfacial tensions, adsorption at liquid interfaces.	PPT & BB	5	
6	Adsorption isotherms only (Freundlich's isotherms and Langmuir's isotherm's).	PPT	4	
7	Surface-active agents and HLB	BB	4	
8	classification, solubilization, detergency. Parachor, Adsorption at solid interfaces.	PPT	4	
9	Solid gas and solid liquid interfaces, complex films, electrical properties of interfaces.	PPT	3	
<b>Total No. of Periods: 20</b>				
UNIT III				
10	Micromeritics and Powder Rheology: Particle size and size distribution, number and weight distribution, particle number	PPT & BB	3	
11	Methods for determining particle volume, methods of determining particle size: optical microscopy and sedimentation,	BB	5	
12	Measurement of particle shape, specific surface area: methods for determining surface area, permeability, adsorption, derived properties of powders, porosity, packing arrangement, densities, bulkiness and flow properties.	PPT	6	
<b>Total No. of Periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	Relevant COs



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UNIT IV:				
13	Rheology: Newtons law of flow, kinematic viscosity, effect of temperature	PPT	5	C311.5
14	Newtonian systems, non-Newtonian systems: pseudoplastic, dilatant, plastic, thixotropy,	BB	5	
15	Negative thixotropy Determination of viscosity, capillary, falling ball and rotational viscometers.			
<b>Total No. of periods:10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	Relevant COs
UNIT V				
16	Colloids: Introduction, types of colloidal systems, protective colloids, applications of colloids in pharmacy.	BB	6	
<b>Total No. of periods:6</b>				

**Total number of classes: 61**

*B. V. Ramana*

Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>G.Kamalesh Goud</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmaceutical Technology –II</b>	Code	:	<b>15R00503</b>
Year	:	<b>III B pharmacy</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2017-2018 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
<b>UNIT -I</b>			
1	Tablets: Introduction to different types of tablets, Formulation of tablets, direct compression, Granulation technology on large-scale by various techniques and equipments.	BB	3
2	Tablet processing problems and their remedy. Types of tablet compression machinery and the equipments employed and evaluation of tablets.	BB	3
3	Coating of Tablets: Types of coating, coating materials and their selection, formulation of coating solution, equipment for coating, coating processes, evaluation of coated tablets	BB	3
4	Tablet coating defects and their remedy.	BB	3
<b>Total No. of Periods: 12</b>			
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
<b>UNIT II</b>			
6	Capsules: Advantages and disadvantages of capsule dosage forms,	PPT & BB	3
7	Materials for production of hard and soft gelatin capsules, sizes of capsules, capsule filling, soft processing problems in capsule manufacturing,	PPT & BB	3
8	importance of base absorption and minimum/gm factors in soft capsules, quality control, stability testing and storage of capsule dosage forms.	PPT & BB	3



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Total No. of Periods: 9				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III:</b>				
9	Microencapsulation: Types of microencapsulation and importance of microencapsulation in	PPT & BB	3	
10	Pharmacy, microcapsulation by coacervation phase separation, multi orifice centrifugal separation. Spray drying, spray congealing,	BB	3	
11	polymerization complex emulsion, air suspension technique, and pancoating techniques, evaluation of microcapsules.	BB	3	
<b>Total No. of Periods:9</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
12	Parenteral Products a. Preformulation factors, routes of administration, water for injection, treatment of apyrogenicity, non-aqueous vehicles, isotonicity and methods of its adjustment.	PPT	3	
13	b. Formulation details, containers, closures and their selection.	BB	3	
14	c. Prefilling treatment, washing and sterilization of containers and closures,	BB	3	
15	preparation of solutions and suspensions, filling and closing of ampoules, vials, infusion fluids, lyophilization	PPT	3	
16	preparation of stelyophillization&& of sterile powders, equipment for large-scale manufacture and evaluation of parenteralproducts.	PPT	3	

17	d.Aseptic techniques, sources of contamination and methods of prevention. Design of aseptic area,laminar flow benches, Environmental control monitoring.	BB	3	
<b>Total No. of periods:18</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V Packaging of Pharmaceutical products:</b>				
18	Packaging components, types, specifications and methods of evaluation as per I.P. Factors influencingchoice of containers, packing testing, legal and other official requirements for containers, packingtesting.	PPT	7	
19	Methods of packing of solid, liquid and semi-solid dosage forms, Factors influencing packingmaterial, stability aspects of packaging.	PPT	5	
<b>Total No. of periods: 12</b>				

**Total number of classes:60**

*G. Kamalesh*  
Signature of the faculty

*K.V.S.R.*  
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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>K. Venumadhav</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Clinical Trials</b>	Code	:	<b>15R00606</b>
Year	:	<b>III B pharmacy</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2017-18 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -1</b>				
1	Overview of clinical trials	BB	3	
2	Introduction to clinical trials, Issues in modern clinical trials, Study population. UNIT -II	BB	3	
<b>Total No. of Periods: 6</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
3	Phase I trials:Up-and-down design, Single patient per cohort design, Titration design.	PPT & BB	4	
4	Phase II trials:Randomized dose ranging design, Randomized titration design,	PPT & BB	3	
5	Two-stage phase II designs, Multistage design, Bayesian design	BB	3	
6	Randomized phase II design, Multiple outcomes design.	BB	3	
<b>Total No. of Periods: 13</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	Relevant COs
<b>UNIT III:</b>				
7	Phase III trials:Randomized controlled clinical trials, Uncontrolled trials	PPT & BB	4	



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8	Historical controls, Crossover designs, Withdrawal studies, Factorial designs	BB	3	
9	Group allocation designs, Studies of equivalency.	BB	3	
10	Randomization methods: Simple randomization, Replacement randomization, Random permuted blocks, Blinded studies.	BB	4	
<b>Total No. of Periods:14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	Relevant COs
<b>UNIT IV</b>				
11	Baseline assessment, subgroup analysis, recruitment, multicenter trials	PPT	4	
12	Use of baseline data, Analysis of baseline comparability, Balance and imbalance	BB	4	
13	Difficulties of subgroup analysis, Recruitment of study subjects, Multicenter trials	BB	6	
<b>Total No. of periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	Relevant COs
<b>UNIT V</b>				
14	Statistical approaches for various endpoints: t-test, chisquare test, Fisher's exact test,	PPT	6	
15	analysis of variance, regression analysis, longitudinal analysis, nonparametric statistics	BB	6	
<b>Total No. of periods: 12</b>				

**Total number of classes: 59**

Signature of the faculty

**PRINCIPAL**  
Dr. K.V.S.R. Institute of Pharmacy  
Opp: Dupadu R.S. N.H.-44,  
KURNOOL-518218 (A P)





# Dr. K.V. Subba Reddy Institute of Pharmacy

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Date : .....

## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>K.Sara sireesha</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmaceutical Industry Management And Quality Assurance</b>	Code	:	<b>13R00705</b>
Year	:	<b>IV year B.Pharmacy</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2017-18 R13</b>

Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT I</b>				
1	Features of Business Organizations & New Economic Environment: Characteristic features of Business, Features	BB	4	
2	Evaluation of Sole Proprietorship, Partnership, Joint Stock Company,	BB	2	
3	Public Enterprises and their types, Changing Business Environment in Post Liberalization scenario	BB	2	
<b>Total No. of Periods: 8</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II</b>				
4	Manufacturing Management: Goals of Production Management and Organisation – Production, Planning and Control – Plant location -Principles	PPT & BB	5	
5	Types of Plant Layout-Methods of production (Job, batch and Mass Production), New Product Development.	PPT & BB	5	
6	Organisation of Distribution and Marketing: Functions of Marketing, Marketing Mix, Marketing Strategies based on Product Life Cycle.	PPT & BB	6	



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7	Channels of distribution – Factors influencing channels of distribution, sales organization and sales promotion.	PPT & BB	4	
<b>Total No. of Periods: 20</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT III</b>				
8	Pharma Industry: Growth of Pharma Industry in India–current status and its role in building national economy and national health	PPT & BB	4	
9	Structure of Pharma Industry in India–PSUs in Pharma Industry –Progress in the manufacture of basic drugs, synthetic and drugs of vegetable origin.	PPT & BB	5	
10	Export and import of drugs and pharmaceuticals – Export and import Trade.Audits in pharma industry	PPT & BB	4	
11	Various types of audits and insurance.	BB	2	
<b>Total No. Of periods: 15</b>				
<b>UNIT IV</b>				
12	Introduction to Good Manufacturing Practices: Schedule – M (India), CFR 21 Part 210 and 211 of US FDA, CGMP, GLP.	BB & PPT	4	
13	Introduction Drug Regulatory Agencies: Indian CDSCO, US FDA, EMEA, Canadian HPFBI, and Australian TGA	BB & PPT	5	
14	Introduction to NDA, ANDA, IND, ICH, patent law and ISO.	BB & PPT	4	
<b>Total No. of periods: 13</b>				



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Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT V</b>				
15	Introduction to quality assurance, quality control, Process validation (prospective, retrospective & concurrent), cleaning validation (sampling procedure and acceptance criteria),	PPT	5	
16	Analytical method validation, EQUIPMENTS validation (DQ,IQ,OQ,PQ), SOP and STP.	PPT	2	
17	Types of documents in Quality assurance	BB	1	
<b>Total No. of periods: 8</b>				

**Total number of classes: 58**

Signature of the faculty

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## Department of Pharmacy

### LESSON PLAN

Faculty Name	:	<b>B.Lavanya</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>STATISTICAL METHODS AND COMPUTER APPLICATIONS</b>	Code	:	<b>13R00804</b>
Year	:	<b>IV</b>	Semester	:	<b>II Semester</b>
Degree & Branch	:	<b>B.Pharmacy</b>	Academic Year & Regulation	:	<b>2017-18 R13</b>

Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	Relevant Cos
<b>UNIT I</b>				
1	Basics of Statistics: Types of data, Collection of data, Variables and variation, sample, population, statistic and parameter,	BB	4	
2	Measures of central tendency, Measures of Dispersion, Coefficient of variation Graphical representation of data:	PPT	4	
3	Histogram, Semilogarithmic plots, bar, pie diagrams, binomial,	BB	4	
4	Poisson and Normal distributions, kurtosis and skewness.	PPT	3	
<b>Total No. of Periods: 15</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II: Shear, Torsion and Bond</b>				
5	Correlation and Regression: Correlation Spearman coefficient of correlation,	PPT & BB	4	
6	Pearson's rank correlation, Regression analysis, linear regression	PPT	4	
7	Statistical Inference: Basics of testing hypothesis: Null Hypothesis, Alternate Hypothesis	PPT	4	



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8	Level of Significance, Confidence interval, Standard errors, parametric and non-parametric tests used in pharmaceutical experiments	BB & PPT	4	
<b>Total No. of Periods: 16</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT III: SLABS</b>				
9	ANOVA:one way and two way analysis, CRD, RBD, Latin square designs	PPT & BB	3	
10	SQC, Applications of statistical concepts in pharmaceutical sciences	BB	3	
<b>Total No. of Periods: 6</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT IV: COLUMNS</b>				
11	Introduction to Computers: Components of computers, computer languages, use of computers,	PPT	3	
12	Introduction to operating system. MS-OFFICE: MS-WORD, MS-EXCEL, MS-POWERPOINT.	PPT	4	
13	Information technology: Internet and world wide web, Search strategies.	PPT	3	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT V: DESIGN OF FOOTING AND DESIGN OF STAIR CASE</b>				
14	Computer applications in pharmaceutical and clinical studies, computer validation- introduction	PPT	3	
15	Work Study-Basic procedure involved in method study and work Measurement-Statistical	BB	5	
16	Quality Control: Xchart, R chart, c chart, p chart, (simple Problems), Acceptance Sampling, Deming's contribution to quality.	PPT	5	
<b>Total No. of periods:13</b>				

**Total number of classes: 60**

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## Department of Pharmacy

### LESSON PLAN

Faculty Name	:	<b>E.Honey</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>HUMAN ANATOMY AND PHYSIOLOGY - I</b>	Code	:	<b>15R00105</b>
Year	:	<b>I-YEAR</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.PHARMACY</b>	Academic Year & Regulation	:	<b>2018-19 R15</b>

Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
1	Scope of anatomy and physiology, basic terminology used in these subjects	BB	2
2	Structure of cell, its components and their functions	BB	2
3	Body fluids, homeostasis. Tissues Elementary tissues of the human body: epithelial, connective, muscular and nervous tissues, their sub types and characteristics and functions.	BB & PPT	2
4	Urinary system: Various parts, structure & functions of the kidney and urinary tract. .Physiology of urine formation.	PPT	4
<b>Total Number of Periods: 10</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
5.	Haemopoietic system: Composition and functions of blood, blood groups and their significance and mechanism of coagulation of blood.	BB	2
6.	Types of anemia, disorders related to blood components (Definitions only)	BB	2
7.	Respiratory System: Various parts of respiratory tract and their functions. mechanism and regulation of respiration, respiratory volumes and vital capacity	PPT	2



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8.	Disorders related to respiratory system (Definitions only)	BB	2
<b>Total Number of Periods:8</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
9	Reproductive Systems: Male and Female reproductive systems and their hormones	PPT & BB	2
10	Physiology of menstruation, coitus and fertilization.	PPT	2
11	Sex differentiation, spermatogenesis & oogenesis.	BB	2
12	Digestive System: Gross anatomy of the gastrointestinal tract,	PPT & BB	4
13	Disorders related to GIT (definitions only)		2
<b>Total Number of Periods: 12</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
14	a) Cardiovascular system: Basic anatomy and physiology of heart and blood vessels, circulation (Systemic, pulmonary, coronary).	PPT	2
15	Understanding of cardiac cycle, heart sounds and electrocardiogram.	PPT	2
16	Blood pressure and its regulation. Disorders related to Cardiovascular system (Definitions only)	PPT	2
17	b) Lymph and Lymphatic System: Composition, formation and circulation of lymph; Disorders related to lymphatic system (Definitions only)	BB	3
18	C) Study of sense organs: Structure and detailed functions of eye, ear, nose, tongue, skin	PPT	2
<b>Total Number of Periods: 11</b>			
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours
19	a) Central Nervous System: Functions of different parts of brain and spinal cord.	PPT	2



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20	Structure of blood brain barrier and its importance. Neurochemical transmission in the central nervous system,	BB	2
21	Electroencephalogram, cranial nerves and their functions.	PPT	2
22	b) Autonomic Nervous System: Physiology and functions of autonomic nervous system. Mechanism of neurohumoral transmission in the A.N.S.	BB & PPT	4
23	C) Musculoskeletal system: Structure, composition and functions of skeleton, Joints, classification of joints and types of movements of synovial joints.	BB & PPT	4
<b>Total Number of Periods:14</b>			

**Total number of classes: 55**

Signature of the faculty

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## Department of PHARMACY

### LESSON PLAN

Faculty Name	:	<b>R.Naganjaneyulu</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>PHARMACOGNOSY-I</b>	Code	:	<b>15R00204</b>
Year	:	<b>I year</b>	Semester	:	<b>II</b>
Degree & Branch	:	<b>B-PHARMACY</b>	Academic Year & Regulation	:	<b>2018-19 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
1	A) Definition, history, development and scope of Pharmacognosy	BB	3
2	B) Brief introduction to natural sources of drugs with examples: plants, animals, minerals, marine and microorganisms	PPT	5
	<b>Total Number of Periods:8</b>		
3	A) Classification of drugs of natural origin: Alphabetical, morphological, taxonomical, chemotaxonomic, pharmacological and chemical classification with suitable examples.	PPT & BB	5
4	B) Cultivation, collection, processing, drying, and storage of medicinal plants.	PPT	4
5	Factors influencing cultivation of medicinal plants.	PPT	2
6	Plant hormones and their applications. Improved methods of cultivation techniques: polyploidy, mutation and hybridization with reference to medicinal plants.	BB & PPT	4
7	WHO guidelines on Good Agricultural and Collection Practices (GACP) for medicinal plants	PPT	3
	<b>Total Number of Periods: 18</b>		



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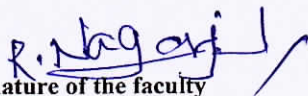
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8	A) Introduction, definition, classification, different chemical tests for the carbohydrates and derived products. Systemic Pharmacognostic study of the following carbohydrates and derived products: Acacia, Tragacanth, Agar,	PPT & BB	6
9	Starch, Guar gum, Pectin, Isabgol and Honey.	BB	4
	<b>Total Number of Periods:10</b>		
10	A) Definition, classification and properties of tannins.	PPT	2
11	Study of tannin containing drugs-Gambir, Black catechu, Galls, Myrobalan and Arjuna.	PPT	2
12	B) Study of source, preparation and identification of fibres used in pharmacy like cotton, silk, wool	BB	4
13	Nylon and polyester.	BB	1
	<b>Total Number of Periods:9</b>		
14	Introduction, definition, classification, different physical, chemical properties	PPT	2
15	Extraction methods, chemical tests for the lipids.	BB	2
16	Systemic Pharmacognostic study of the following lipids: castor oil, cod liver oil, shark liver oil	PPT	5
17	Linseed oil, cocoa butter, kokum butter, bees wax, wool fat, hydnocarpus oil, Rice bran oil and Lard	BB	5
	<b>Total Number of Periods: 14</b>		

**Total number of classes: 59**

  
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## Department of PHARMACY

### LESSON PLAN

Faculty Name	:	<b>Shaik.Sabiya Sulthana</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>PHARMACEUTICAL MICROBIOLOGY</b>	Code	:	<b>15R00304</b>
Year	:	<b>II-year</b>	Semester	:	<b>I-semester</b>
Degree & Branch	:	<b>B-PHARMACY</b>	Academic Year & Regulation	:	<b>2018-19 R15</b>

Lecture No.	Topics to be covered	PPT/BB/ OHP/e- material	No. of Hours	
<b>UNIT I</b>				
1	Origin, scope and discovery of spontaneous generations theory, contributions of Antonie Van Leeuwenhoek, Pasteur, Koch and Lister. Characterization and identification of microorganisms.	BB & PPT	3	
2	Diversity of Microorganisms: Prokaryotes versus eukaryotes – eukaryotic and prokaryotic cell structure, threedomains of life (bacteria, archaea and eukaryotics).	PPT	3	
3	Pharmaceutical significance of protozoa, algae, fungi, bacteria and viruses.	BB	2	
4	Characterization and identification of microorganisms.	BB	2	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/ OHP/e- material	No. of Hours	
<b>UNIT II</b>				



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5	Nutritional requirements, Types of Nutrient media and growth conditions and Nutritional types based on energy source.	PPT & BB	4	
6	Isolation, cultivation (aerobic & anaerobic) and preservation of microorganisms, physiology of growth, bacterial growth curve, methods for determining bacterial numbers, mass and cell constituents	PPT & BB	5	
7	Exponential growth and generation time. Bacterial growth in batch and continuous culture (chemostat and turbidostat) synchronous growth.	PPT & BB	5	
<b>Total No. of Periods: 14</b>				
<b>UNIT III</b>				
8	General Concepts, Inhibition of growth and killing, sterilization and disinfection, antisepsis and sanitation, mode of action application & limitation of physical agents (moist and dry heat, radiation and filtration), chemical agents. Various types of disinfectants	PPT & BB	7	
9	Factors affecting sterilization and disinfection, evaluation of antimicrobial activity.	PPT	2	
10	Chemotherapeutic agents, mode of action and applications, drug resistance.	BB	2	



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11	Official methods of sterility testing of pharmaceuticals and biosafety measures.	BB	2	
<b>Total No. of Periods:13</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV:</b>				
12	Epidemiology of Diseases: Study of etiology, diagnosis, source of infection, mode of transmission, immunization methods, prevention and control of the following diseases. Bacillary dysentery, diphtheria, tuberculosis,	PPT & BB	5	
13	Leprosy, cholera, typhoid, syphilis, gonorrhoea, tetanus, food poisoning and infective hepatitis.	BB	3	
14	Diagnostic tests of Malaria, Typhoid, Cholera, TB, Leprosy.	BB	3	
<b>Total No. of periods:11</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V</b>				
15	a. Microbiological Assays: Principles and Methods involved in Assay of Antibiotics (penicillins, tetracyclines and streptomycins only)	PPT	3	
16	Vitamins (cyanocobalamin and riboflavin only), Amino acids (lysine and glutamic acid only) & Bio-Sensors in Analysis.	PPT	4	
17	b. Microbial Source & applications of various pharmaproducts like Antibiotics, vitamins, Amino acids, solvents, enzymes & genetic engineered products etc.	PPT	4	
<b>Total No. of periods: 11</b>				

**Total number of classes: 59**

*S. Shankar Reddy Subbarao*  
Signature of the faculty

*S. Shankar Reddy Subbarao*  
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Date : .....

## Department of PHARMACY

### LESSON PLAN

Faculty Name	:	<b>S.K.Rubina</b>	Dept.	:	<b>PHARMACY</b>
Subject Name	:	<b>PHYSICAL PHARMACY – II</b>	Code	:	<b>15R00404</b>
Year	:	<b>II -year</b>	Semester	:	<b>II-semester</b>
Degree & Branch	:	<b>B-PHARMACY</b>	Academic Year & Regulation	:	<b>2018-2019 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
<b>UNIT I</b>			
1	Solubility and distribution phenomena: Solvent-solute interaction, solubility of gases in liquids	BB	3
2	Solubility of liquids in liquids, solubility of solids in liquids, distribution of solutes in immiscible solvents.	PPT	3
3	Introduction to phenomena of diffusion: Fick's first law and second law.	BB	2
4	Complexation: Classification of complexes, methods of preparation, analysis and applications.	BB	3
<b>Total No. of Periods: 11</b>			
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours



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UNIT II				
5	Interfacial Phenomena: Liquid interfaces, spreading coefficient, measurement of surface and interfacial tensions, adsorption at liquid interfaces.	PPT & BB	5	
6	Adsorption isotherms only (Freundlich's isotherms and Langmuir's isotherm's).	PPT	4	
7	Surface-active agents and HLB	BB	4	
8	classification, solubilization, detergency. Parachor, Adsorption at solid interfaces.	PPT	4	
9	Solid gas and solid liquid interfaces, complex films, electrical properties of interfaces.	PPT	3	
<b>Total No. of Periods: 20</b>				
UNIT III				
10	Micromeritics and Powder Rheology: Particle size and size distribution, number and weight distribution, particle number	PPT & BB	3	
11	Methods for determining particle volume, methods of determining particle size: optical microscopy and sedimentation,	BB	5	
12	Measurement of particle shape, specific surface area: methods for determining surface area, permeability, adsorption, derived properties of powders, porosity, packing arrangement, densities, bulkiness and flow properties.	PPT	6	
<b>Total No. of Periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	



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UNIT IV:				
13	Rheology: Newtons law of flow, kinematic viscosity, effect of temperature	PPT	5	
14	Newtonian systems, non-Newtonian systems: pseudoplastic, dilatant, plastic, thixotropy,	BB	5	
15	Negative thixotropy Determination of viscosity, capillary, falling ball and rotational viscometers.			
<b>Total No. of periods:10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
UNIT V				
16	Colloids: Introduction, types of colloidal systems, protective colloids, applications of colloids in pharmacy.	BB	5	
<b>Total No. of periods:5</b>				

**Total number of classes: 60**

Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>R.Padma</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmaceutical Technology –II</b>	Code	:	<b>15R00503</b>
Year	:	<b>III B pharmacy</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2018-2019 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -I</b>				
1	Tablets: Introduction to different types of tablets, Formulation of tablets, direct compression, Granulation technology on large-scale by various techniques and equipments.	BB	3	
2	Tablet processing problems and their remedy. Types of tablet compression machinery and the equipments employed and evaluation of tablets.	BB	3	
3	Coating of Tablets: Types of coating, coating materials and their selection, formulation of coating solution, equipment for coating, coating processes, evaluation of coated tablets	BB	3	
4	Tablet coating defects and their remedy.	BB	3	
<b>Total No. of Periods: 12</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
6	Capsules: Advantages and disadvantages of capsule dosage forms,	PPT & BB	3	
7	Materials for production of hard and soft gelatin capsules, sizes of capsules, capsule filling, soft processing problems in capsule manufacturing,	PPT & BB	3	
8	importance of base absorption and minimum/gm factors in soft capsules, quality control, stability testing and storage of capsule dosage forms.	PPT & BB	3	



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<b>Total No. of Periods: 9</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III:</b>				
9	Microencapsulation: Types of microencapsulation and importance of microencapsulation in	PPT & BB	3	
10	Pharmacy, microcapsulation by coacervation phase separation, multi orifice centrifugal separation. Spray drying, spray congealing,	BB	3	
11	polymerization complex emulsion, air suspension technique, and pancoating techniques, evaluation of microcapsules.	BB	3	
<b>Total No. of Periods:9</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
12	Parenteral Products a. Preformulation factors, routes of administration, water for injection, treatment of apyrogenicity, non-aqueous vehicles, isotonicity and methods of its adjustment.	PPT	3	
13	b. Formulation details, containers, closures and their selection.	BB	3	
14	c. Prefilling treatment, washing and sterilization of containers and closures,	BB	3	
15	preparation of solutions and suspensions, filling and closing of ampoules, vials, infusion fluids, lyophilization	PPT	3	
16	preparation of stelyophilization & of sterile powders, equipment for large-scale manufacture and evaluation of parenteral products.	PPT	3	



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17	d.Aseptic techniques, sources of contamination and methods of prevention. Design of aseptic area, laminar flow benches, Environmental control monitoring.	BB	3	
<b>Total No. of periods:18</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V Packaging of Pharmaceutical products:</b>				
18	Packaging components, types, specifications and methods of evaluation as per I.P. Factors influencing choice of containers, packing testing, legal and other official requirements for containers, packing testing.	PPT	5	
19	Methods of packing of solid, liquid and semi-solid dosage forms, Factors influencing packing material, stability aspects of packaging.	PPT	3	
<b>Total No. of periods:8</b>				

**Total number of classes:56**

*R. Padma*  
Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>B.Lavanya</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Clinical Trials</b>	Code	:	<b>15R00606</b>
Year	:	<b>III B pharmacy</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2018-19 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -1</b>				
1	Overview of clinical trials	BB	3	
2	Introduction to clinical trials, Issues in modern clinical trials, Study population.UNIT -II	BB	3	
<b>Total No. of Periods: 6</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
3	Phase I trials:Up-and-down design, Single patient per cohort design, Titration design.	PPT & BB	4	
4	Phase II trials:Randomized dose ranging design, Randomized titration design,	PPT & BB	3	
5	Two-stage phase II designs, Multistage design, Bayesian design	BB	3	
6	Randomized phase II design, Multiple outcomes design.	BB	3	
<b>Total No. of Periods: 13</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III:</b>				
7	Phase III trials:Randomized controlled clinical trials, Uncontrolled trials	PPT & BB	4	



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8	Historical controls, Crossover designs, Withdrawal studies, Factorial designs	BB	3	
9	Group allocation designs, Studies of equivalency.	BB	3	
10	Randomization methods: Simple randomization, Replacement randomization, Random permuted blocks, Blinded studies.	BB	4	
<b>Total No. of Periods:14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
11	Baseline assessment, subgroup analysis, recruitment, multicenter trials	PPT	4	
12	Use of baseline data, Analysis of baseline comparability, Balance and imbalance	BB	4	
13	Difficulties of subgroup analysis, Recruitment of study subjects, Multicenter trials	BB	6	
<b>Total No. of periods:14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V</b>				
14	Statistical approaches for various endpoints: t-test, chisquare test, Fisher's exact test,	PPT	5	
15	analysis of variance, regression analysis, longitudinal analysis, nonparametric statistics	BB	5	
<b>Total No. of periods:10</b>				

**Total number of classes:57**

  
Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>R.Naganjaneyulu</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Clinical And Hospital Pharmacy</b>	Code	:	<b>15R00703</b>
Year	:	<b>IV B pharmacy</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2018-2019 R15</b>

Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	
1	Introduction to clinical pharmacy: a. Prospects and perspectives of clinical pharmacy in national and international scenario, scope of clinical pharmacy	BB	3	
2	b. Therapeutic Drug Monitoring	BB	2	
3	c. Clinical Pharmacokinetics and individualization of Drug Therapy.			
4	d. Concept of Essential Drugs and Rational Drug use.	BB	5	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	
<b>UNIT II</b>				
5	Introduction to daily activities of Clinical pharmacist a. Drug therapy monitoring (Medication chart review) b. Adverse Drug Reactions & Drug Interactions	PPT & BB	3	
6	c. Patient counseling	BB	2	
7	d. Drug and poison information	BB	3	
8	e. Ward round participation.	BB	5	



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Total No. of Periods: 13				
Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	
<b>UNIT III</b>				
9	Clinical laboratory tests and interpretation of test results a. Hematological (complete blood picture)	PPT & BB	3	
10	b. Pulmonary function tests	PPT	2	
11	c. Tests associated with cardiac disorders d. Liver, Renal function tests	BB	3	
<b>Total No. of Periods: 8</b>				
Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	
<b>UNIT IV</b>				
12	Hospital Management Organization of a hospital and hospital pharmacy (drug store),	PPT	2	
13	Responsibilities of a hospital pharmacist, pharmacy and therapeutic committee.	BB	2	
14	Hospital formulary, purchase and inventory control	B B	1	
15	Role of Pharmacist in community health care and education.	BB	1	
<b>Total No. of Periods: 6</b>				
Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	
<b>UNIT V</b>				
16	Drug distribution and records Procedural manual, drug distribution,	PPT	3	
17	Dispensing to out-patients, in-patients and ambulatory patient	BB	3	
18	Dispensing of ancillary and controlled substances.	BB	2	
19	Prescription filling, drug profile.	BB	4	
<b>Total No. of periods: 12</b>				

Total number of classes: 59

Signature of the faculty

*R. Nagaraj*

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>S.Reshma</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>MOOCS -II (Biostatistics and Design of Experiments)</b>	Code	:	<b>15R00801</b>
Year	:	<b>IV</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2018-19 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -1</b>				
1	Introduction to Statistics Various Distributions: Normal Distribution, sample and Population, Z distribution.	BB	20	
<b>Total No. of Periods: 20</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
2	Test of Significance, t- test, F test, ANOVA.UNIT III	PPT & BB	10	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III:</b>				
3	2 test/odds ratio, Non-Parametric test, other tests.UNIT IV	PPT & BB	10	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	





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UNIT IV				
4	Design of Experiments: Introduction to design of experiments, screening designs – Data Analysis.	PPT	10	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
UNIT V				
5	Higher order Designs - Data analysis Regression Analysis – Data reduction	BB	5	
<b>Total No. of periods:5</b>				

**Total number of classes: 55**

*S. Reddy*  
Signature of the faculty

*S. Reddy*  
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## LESSON PLAN

Faculty Name	:	<b>E.Honey</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Human Anatomy And Physiology-I</b>	Code	:	<b>BP101T</b>
Year	:	<b>I</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.Pharmacy</b>	Academic Year & Regulation	:	<b>2019-2020 R19</b>
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT I</b>					
1	<b>Introduction to human body</b> Definition and scope of anatomy and physiology, levels of structural organization and body systems,		BB	3	
2	Basic life processes, homeostasis, basic anatomical terminology		BB	3	
3	<b>Cellular level of organization</b> Structure and functions of cell, transport across cell membrane, cell division, cell junctions.		PPT	3	
4	General principles of cell communication, intracellular signaling pathway activation by extracellular signal molecule,		PPT	4	
5	Forms of intracellular signaling: a) Contact-dependent b) Paracrine c) Synaptic d) Endocrine		BB	3	
6	<b>Tissue level of organization</b> Classification of tissues, structure, location and functions of epithelial, muscular		BB	3	
7	Nervous and connective tissues		BB	3	
<b>Total No. of Periods: 22</b>					
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II</b>					
8	<b>Integumentary system</b> Structure and functions of skin		PPT & BB	2	



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9	<b>Skeletal system</b> Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular	PPT & BB	4	
10	Skeletal system Organization of skeletal muscle,	BB	2	
11	Physiology of muscle contraction, neuromuscular junction	BB	2	
12	<b>Joints</b> Structural and functional classification, types of joints movements and its articulation	PPT & BB	4	
<b>Total No. of Periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT III</b>				
13	<b>Body fluids and blood</b> Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia	PPT & BB	4	
14	Mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance	PPT	4	
15	Disorders of blood, Reticulo endothelial system	BB	3	
16	<b>Lymphatic system</b> Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system	BB	5	
<b>Total No. of Periods:16</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
17	<b>Peripheral nervous system</b> Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system.	PPT	5	
18	Origin and functions of spinal and cranial nerves.	BB	2	



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19	<b>Special Senses</b> Structure and functions of eye, ear, nose and tongue and their disorders.	PPT	3	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT V</b>				
20	<b>Cardiovascular system</b> Heart – anatomy of heart, blood circulation, blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system,	PPT	2	
21	Cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.	PPT	1	
<b>Total No. of periods:3</b>				

**Total number of classes: 65**

Signature of the faculty

  
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## LESSON PLAN

Faculty Name	:	<b>Dr.K.Chandra sekhar</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmaceutical Biochemistry</b>	Code	:	<b>BP203 T</b>
Year	:	<b>I Year</b>	Semester	:	<b>II Semester</b>
Degree & Branch	:	<b>B.PHARMACY</b>	Academic Year & Regulation	:	<b>2019-2020 R-19</b>
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT I</b>					
1	<b>Biomolecules</b> Introduction, classification, chemical nature and biological role of carbohydrate		BB	2	
2	Lipids, nucleic acids, amino acids and proteins		BB	2	
3	<b>Bioenergetics</b> Concept of free energy, endergonic and exergonic reaction,		PPT	2	
4	Relationship between free energy, enthalpy and entropy; Redox potential.		PPT	2	
5	Energy rich compounds; classification;		BB	2	
6	Biological significances of ATP and cyclic AMP		BB	2	
<b>Total No. of Periods:12</b>					
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II</b>					
7	<b>Carbohydrate metabolism</b> Glycolysis – Pathway, energetics and significance Citric acid cycle- Pathway, energetics and significance		PPT & BB	2	
8	HMP shunt and its significance; Glucose-6-Phosphate dehydrogenase (G6PD) deficiency		BB	2	
9	Glycogen metabolism Pathways and glycogen storage diseases (GSD)		BB	2	
10	Gluconeogenesis- Pathway and its significance		BB	2	



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11	<b>Biological oxidation</b> Electron transport chain (ETC) and its mechanism	BB	2	
12	Oxidative phosphorylation & its mechanism and substrate phosphorylation	PPT	2	
13	Inhibitors ETC and oxidative phosphorylation/Uncouplers	PPT	2	
<b>Total No. of Periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT III</b>				
14	<b>Lipid metabolism</b> $\beta$ -Oxidation of saturated fatty acid (Palmitic acid)	PPT & BB	2	
15	Formation and utilization of ketone bodies; ketoacidosis	BB	2	
16	De novo synthesis of fatty acids (Palmitic acid)	BB	2	
17	Biological significance of cholesterol and conversion of cholesterol into bile acids	PPT	2	
18	Steroid hormone and vitamin D	PPT	2	
19	Disorders of lipid metabolism: Hypercholesterolemia, atherosclerosis, fatty liver and obesity.	PPT	2	
20	<b>Amino acid metabolism</b> General reactions of amino acid metabolism: Transamination, deamination & decarboxylation, ,		2	
21	urea cycle and its disorders	BB	2	
22	Catabolism of phenylalanine and tyrosine and their metabolic disorders (Phenyketonuria, Albinism, alkeptonuria, tyrosinemia)	PPT	2	
23	Synthesis and significance of biological substances; 5-HT, melatonin	BB	2	
24	Dopamine, noradrenaline, adrenaline	PPT	2	
25	Catabolism of heme; hyperbilirubinemia and jaundice	BB	2	
<b>Total No. of Periods:24</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	



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UNIT IV				
26	<b>Nucleic acid metabolism and gene information transfer</b> Biosynthesis of purine and pyrimidine nucleotides and Gout disease Organization of mammalian genome	PPT	1	
27	Structure of DNA and RNA and their functions DNA replication (semi conservative model)	BB	1	
28	Transcription or RNA synthesis	PPT	1	
29	Genetic code, Translation or Protein synthesis and inhibitor	BB	1	
<b>Total No. of periods: 4</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
UNIT V				
30	<b>Enzymes</b> Introduction, properties, nomenclature and IUB classification of enzymes	BB	1	
31	Enzyme kinetics (Michaelis plot, Line Weaver Burke plot)	PPT	1	
32	Enzyme inhibitors with examples Regulation of enzymes: enzyme induction and repression, allosteric enzymes regulation	PPT	1	
33	Therapeutic and diagnostic applications of enzymes and isoenzymes Coenzymes –Structure and biochemical functions	BB	1	
<b>Total No. of periods:4</b>				

**Total number of classes: 58**

Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>Dr B.V Ramana</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmaceutical Technology –II</b>	Code	:	<b>15R00503</b>
Year	:	<b>III B pharmacy</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2019-2020 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -I</b>				
1	Tablets: Introduction to different types of tablets, Formulation of tablets, direct compression, Granulation technology on large-scale by various techniques and equipments.	BB	3	
2	Tablet processing problems and their remedy. Types of tablet compression machinery and the equipments employed and evaluation of tablets.	BB	3	
3	Coating of Tablets: Types of coating, coating materials and their selection, formulation of coating solution, equipment for coating, coating processes, evaluation of coated tablets	BB	3	
4	Tablet coating defects and their remedy.	BB	3	
<b>Total No. of Periods: 12</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
6	Capsules: Advantages and disadvantages of capsule dosage forms,	PPT & BB	3	
7	Materials for production of hard and soft gelatin capsules, sizes of capsules, capsule filling, soft processing problems in capsule manufacturing,	PPT & BB	3	
8	importance of base absorption and minimum/gm factors in soft capsules, quality control, stability testing and storage of capsule dosage forms.	PPT & BB	3	





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## Total No. of Periods: 9

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
<b>UNIT III:</b>			
9	Microencapsulation: Types of microencapsulation and importance of microencapsulation in	PPT & BB	3
10	Pharmacy, microcapsulation by coacervation phase separation, multi orifice centrifugal separation. Spray drying, spray congealing,	BB	3
11	polymerization complex emulsion, air suspension technique, and pancoating techniques, evaluation of microcapsules.	BB	3
<b>Total No. of Periods:9</b>			
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours
<b>UNIT IV</b>			
12	Parenteral Products a. Preformulation factors, routes of administration, water for injection, treatment of apyrogenicity, non-aqueous vehicles, isotonicity and methods of its adjustment.	PPT	3
13	b. Formulation details, containers, closures and their selection.	BB	3
14	c. Prefilling treatment, washing and sterilization of containers and closures,	BB	3
15	preparation of solutions and suspensions, filling and closing of ampoules, vials, infusion fluids, lyophilization	PPT	3
16	preparation of steryophillization & of sterile powders, equipment for large-scale manufacture and evaluation of parenteral products.	PPT	3



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17	d.Aseptic techniques, sources of contamination and methods of prevention. Design of aseptic area, laminar flow benches, Environmental control monitoring.	BB	3	
<b>Total No. of periods:18</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V Packaging of Pharmaceutical products:</b>				
18	Packaging components, types, specifications and methods of evaluation as per I.P. Factors influencing choice of containers, packing testing, legal and other official requirements for containers, packing testing.	PPT	5	
19	Methods of packing of solid, liquid and semi-solid dosage forms, Factors influencing packing material, stability aspects of packaging.	PPT	5	
<b>Total No. of periods:10</b>				

**Total number of classes:58**

*B. Venkanna*

Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>S.Reshma</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Clinical Trials</b>	Code	:	<b>15R00606</b>
Year	:	<b>III B pharmacy</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2019-20 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -1</b>				
1	Overview of clinical trials	BB	3	
2	Introduction to clinical trials, Issues in modern clinical trials, Study population. UNIT –II	BB	3	
<b>Total No. of Periods: 6</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
3	Phase I trials:Up-and-down design, Single patient per cohort design, Titration design.	PPT & BB	4	
4	Phase II trials:Randomized dose ranging design, Randomized titration design,	PPT & BB	3	
5	Two-stage phase II designs, Multistage design, Bayesian design	BB	3	
6	Randomized phase II design, Multiple outcomes design.	BB	3	
<b>Total No. of Periods: 13</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III:</b>				
7	Phase III trials:Randomized controlled clinical trials, Uncontrolled trials	PPT & BB	4	



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8	Historical controls, Crossover designs, Withdrawal studies, Factorial designs	BB	3	
9	Group allocation designs, Studies of equivalency.	BB	3	
10	Randomization methods: Simple randomization, Replacement randomization, Random permuted blocks, Blinded studies.	BB	4	
<b>Total No. of Periods:14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
11	Baseline assessment, subgroup analysis, recruitment, multicenter trials	PPT	4	
12	Use of baseline data, Analysis of baseline comparability, Balance and imbalance	BB	4	
13	Difficulties of subgroup analysis, Recruitment of study subjects, Multicenter trials	BB	6	
<b>Total No. of periods:14</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V</b>				
14	Statistical approaches for various endpoints: t-test, chisquare test, Fisher"s exact test,	PPT	5	
15	analysis of variance, regression analysis, longitudinal analysis, nonparametric statistics	BB	4	
<b>Total No. of periods:9</b>				

**Total number of classes:56**

*S. Reddy*  
Signature of the faculty

*S. Reddy*  
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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>Dr.S.KusumaKumari</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Clinical And Hospital Pharmacy</b>	Code	:	<b>15R00703</b>
Year	:	<b>IV B pharmacy</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2019-2020 R15</b>

Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	
1	Introduction to clinical pharmacy: a. Prospects and perspectives of clinical pharmacy in national and international scenario, scope of clinical pharmacy	BB	3	
2	b. Therapeutic Drug Monitoring	BB	2	
3	c. Clinical Pharmacokinetics and individualization of Drug Therapy.			
4	d. Concept of Essential Drugs and Rational Drug use.	BB	5	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/O HP/e-material	No. of Hours	Relevant COs
<b>UNIT II</b>				
5	Introduction to daily activities of Clinical pharmacist a. Drug therapy monitoring (Medication chart review) b. Adverse Drug Reactions & Drug Interactions	PPT & BB	3	
6	c. Patient counseling	BB	2	
7	d. Drug and poison information	BB	3	
8	e. Ward round participation.	BB	5	



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Total No. of Periods: 13				
Lecture No.	Topics to be covered	PPT/BB/O HP/e- material	No. of Hours	
<b>UNIT III</b>				
9	Clinical laboratory tests and interpretation of test results a. Hematological (complete blood picture)	PPT & BB	3	
10	b. Pulmonary function tests	PPT	2	
11	c. Tests associated with cardiac disorders d. Liver, Renal function tests	BB	3	
<b>Total No. of Periods: 8</b>				
Lecture No.	Topics to be covered	PPT/BB/O HP/e- material	No. of Hours	
<b>UNIT IV</b>				
12	Hospital Management Organization of a hospital and hospital pharmacy (drug store),	PPT	2	
13	Responsibilities of a hospital pharmacist, pharmacy and therapeutic committee.	BB	2	
14	Hospital formulary, purchase and inventory control	B B	1	
15	Role of Pharmacist in community health care and education.	BB	1	
<b>Total No. of Periods: 6</b>				
Lecture No.	Topics to be covered	PPT/BB/O HP/e- material	No. of Hours	
<b>UNIT V</b>				
16	Drug distribution and records Procedural manual, drug distribution,	PPT	3	
17	Dispensing to out-patients, in-patients and ambulatory patient	BB	3	
18	Dispensing of ancillary and controlled substances.	BB	2	
19	Prescription filling, drug profile.	BB	1	
<b>Total No. of periods: 9</b>				

Total number of classes: 56

Signature of the faculty

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## Department of pharmacy

### LESSON PLAN

Faculty Name	:	<b>Harikrishna</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>MOOCS -II (Biostatistics and Design of Experiments)</b>	Code	:	<b>15R00801</b>
Year	:	<b>IV</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>19-20 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT -1</b>				
1	Introduction to Statistics Various Distributions: Normal Distribution, sample and Population, Z distribution.	BB	20	
<b>Total No. of Periods: 20</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
2	Test of Significance, t- test, F test, ANOVA. UNIT III	PPT & BB	10	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III:</b>				
3	2 test/odds ratio, Non-Parametric test, other tests. UNIT IV	PPT & BB	10	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	



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UNIT IV				
4	Design of Experiments: Introduction to design of experiments, screening designs – Data Analysis.	PPT	10	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
UNIT V				
5	Higher order Designs - Data analysis Regression Analysis – Data reduction	BB	9	
<b>Total No. of periods: 9</b>				

**Total number of classes: 59**

Signature of the faculty

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## **Department of Pharmacy**

### **LESSON PLAN**

Faculty Name	:	<b>B.Aruna</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Human Anatomy And Physiology-I</b>	Code	:	<b>BP101T</b>
Year	:	<b>I</b>	Semester	:	<b>I-Semester</b>
Degree & Branch	:	<b>B.Pharmacy</b>	Academic Year & Regulation	:	<b>2021-2022 R19</b>
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT I</b>					
1	<b>Introduction to human body</b> Definition and scope of anatomy and physiology, levels of structural organization and body systems,		BB	3	
2	Basic life processes, homeostasis, basic anatomical terminology		BB	3	
3	<b>Cellular level of organization</b> Structure and functions of cell, transport across cell membrane, cell division, cell junctions.		PPT	3	
4	General principles of cell communication, intracellular signaling pathway activation by extracellular signal molecule,		PPT	4	
5	Forms of intracellular signaling: a) Contact-dependent b) Paracrine c) Synaptic d) Endocrine		BB	3	
6	<b>Tissue level of organization</b> Classification of tissues, structure, location and functions of epithelial, muscular		BB	3	
7	Nervous and connective tissues		BB	3	
<b>Total No. of Periods: 22</b>					
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II</b>					

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8	<b>Integumentary system</b> Structure and functions of skin	PPT & BB	2	
9	<b>Skeletal system</b> Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular	PPT & BB	4	
10	Skeletal system Organization of skeletal muscle,	BB	2	
11	Physiology of muscle contraction, neuromuscular junction	BB	2	
12	<b>Joints</b> Structural and functional classification, types of joints movements and its articulation	PPT & BB	4	
<b>Total No. of Periods: 14</b>				
<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB /OHP/e-material</b>	<b>No. of Hours</b>	
<b>UNIT III</b>				
13	<b>Body fluids and blood</b> Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia	PPT & BB	4	
14	Mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance	PPT	4	
15	Disorders of blood, Reticulo endothelial system	BB	3	
16	<b>Lymphatic system</b> Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system	BB	3	
<b>Total No. of Periods:14</b>				
<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB /OHP/e-material</b>	<b>No. of Hours</b>	
<b>UNIT IV</b>				

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17	<b>Peripheral nervous system</b> Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system.	PPT	2	
18	Origin and functions of spinal and cranial nerves.	BB	2	
19	<b>Special Senses</b> Structure and functions of eye, ear, nose and tongue and their disorders.	PPT	2	
<b>Total No. of periods:6</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT V</b>				
20	<b>Cardiovascular system</b> Heart – anatomy of heart, blood circulation, blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system,	PPT	2	
21	Cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.	PPT	1	
<b>Total No. of periods:3</b>				

**Total number of classes:59**

Signature of the faculty

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## **Department of Pharmacy**

### **LESSON PLAN**

Faculty Name	:	<b>B.Akhila</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmaceutical Biochemistry</b>	Code	:	<b>BP203 T</b>
Year	:	<b>I Year</b>	Semester	:	<b>II Semester</b>
Degree & Branch	:	<b>B.PHARMACY</b>	Academic Year & Regulation	:	<b>2021-2022 R-19</b>
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT I</b>					
1	<b>Biomolecules</b> Introduction, classification, chemical nature and biological role of carbohydrate		BB	2	
2	Lipids, nucleic acids, amino acids and proteins		BB	2	
3	<b>Bioenergetics</b> Concept of free energy, endergonic and exergonic reaction,		PPT	2	
4	Relationship between free energy, enthalpy and entropy; Redox potential.		PPT	2	
5	Energy rich compounds; classification;		BB	2	
6	Biological significances of ATP and cyclic AMP		BB	2	
<b>Total No. of Periods:12</b>					
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II</b>					
7	<b>Carbohydrate metabolism</b> Glycolysis – Pathway, energetics and significance Citric acid cycle- Pathway, energetics and significance		PPT & BB	2	
8	HMP shunt and its significance; Glucose-6-Phosphate dehydrogenase (G6PD) deficiency		BB	2	

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9	Glycogen metabolism Pathways and glycogen storage diseases (GSD)	BB	2	
10	Gluconeogenesis- Pathway and its significance	BB	2	
11	<b>Biological oxidation</b> Electron transport chain (ETC) and its mechanism	BB	2	
12	Oxidative phosphorylation & its mechanism and substrate phosphorylation	PPT	2	
13	Inhibitors ETC and oxidative phosphorylation/Uncouplers	PPT	2	
<b>Total No. of Periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT III</b>				
14	<b>Lipid metabolism</b> β-Oxidation of saturated fatty acid (Palmitic acid)	PPT & BB	1	
15	Formation and utilization of ketone bodies; ketoacidosis	BB	1	
16	De novo synthesis of fatty acids (Palmitic acid	BB	1	
17	Biological significance of cholesterol and conversion of cholesterol into bile acids	PPT	1	
18	Steroid hormone and vitamin D	PPT	1	
19	Disorders of lipid metabolism: Hypercholesterolemia, atherosclerosis, fatty liver and obesity.	PPT	1	
20	<b>Amino acid metabolism</b> General reactions of amino acid metabolism: Transamination, deamination & decarboxylation, ,		1	
21	urea cycle and its disorders	BB	1	
22	Catabolism of phenylalanine and tyrosine and their metabolic disorders (Phenyketonuria, Albinism, alkeptonuria, tyrosinemia)	PPT	1	
23	Synthesis and significance of biological substances; 5-HT, melatonin	BB	1	
24	Dopamine, noradrenaline, adrenaline	PPT	1	
25	Catabolism of heme; hyperbilirubinemia and jaundice	BB	1	
<b>Total No. of Periods:12</b>				

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Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
26	<b>Nucleic acid metabolism and gene information transfer</b> Biosynthesis of purine and pyrimidine nucleotides and Gout disease Organization of mammalian genome	PPT	1	
27	Structure of DNA and RNA and their functions DNA replication (semi conservative model)	BB	1	
28	Transcription or RNA synthesis	PPT	1	
29	Genetic code, Translation or Protein synthesis and inhibitor	BB	1	
<b>Total No. of periods: 4</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT V</b>				
30	<b>Enzymes</b> Introduction, properties, nomenclature and IUB classification of enzymes	BB	1	
31	Enzyme kinetics (Michaelis plot, Line Weaver Burke plot)	PPT	3	
32	Enzyme inhibitors with examples Regulation of enzymes: enzyme induction and repression, allosteric enzymes regulation	PPT	3	
33	Therapeutic and diagnostic applications of enzymes and isoenzymes Coenzymes –Structure and biochemical functions	BB	3	
<b>Total No. of periods:10</b>				

**Total number of classes:52**

Signature of the faculty

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## **Department of Pharmacy**

### **LESSON PLAN**

Faculty Name	:	<b>R. Jona Methusala</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Pharmacology -I</b>	Code	:	<b>BP 404 T</b>
Year	:	<b>II</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.Pharmacy</b>	Academic Year & Regulation	:	<b>2021-2022 R19</b>
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT I</b>					
1	<b>General Pharmacology</b> Introduction to Pharmacology- Definition, historical landmarks and scope of pharmacology, nature and source of drugs		BB	2	
2	Essential drugs concept and routes of drug administration,		BB	2	
3	Agonists, antagonists( competitive and non competitive), spare receptors, addiction, tolerance, dependence, tachyphylaxis, idiosyncrasy, allergy.		PPT	4	
4	b. Pharmacokinetics- Membrane transport, absorption, distribution, metabolism and excretion of drugs		PPT	2	
5	Enzyme induction, enzyme inhibition, kinetics of elimination		BB	2	
<b>Total No. of Periods: 12</b>					
Lecture No.	Topics to be covered		PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT II</b>					
6	<b>General Pharmacology</b> a. Pharmacodynamics- Principles and mechanisms of drug action		PPT & BB	2	

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7	Receptor theories and classification of receptors, regulation of receptors. drug receptors interactions signal transduction mechanisms	PPT	2	
8	G-protein-coupled receptors, ion channel receptor, transmembrane enzyme linked receptors, transmembrane JAK-STAT binding receptor and receptors that regulate transcription factors,	PPT	2	
	dose response relationship, therapeutic index, combined effects of drugs and factors modifying drug action.	BB	2	
9	b. Adverse drug reactions.	BB	2	
10	c. Drug interactions (pharmacokinetic and pharmacodynamic)	BB	2	
11	d. Drug discovery and clinical evaluation of new drugs - Drug discovery phase, preclinical evaluation phase, clinical trial phase, phases of clinical trials and pharmacovigilance.		2	
<b>Total No. of Periods: 14</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT III</b>				
12	Pharmacology of drugs acting on peripheral nervous system a. Organization and function of ANS.	PPT & BB	2	
13	b. Neurohumoral transmission, co-transmission and classification of neurotransmitters.	PPT	2	
14	c. Parasympathomimetics, Parasympatholytics, Sympathomimetics, sympatholytics	BB	2	
15	d. Neuromuscular blocking agents and skeletal muscle relaxants (peripheral).	BB	2	
16	e. Local anesthetic agents. f. Drugs used in myasthenia gravis and glaucoma	PPT	2	
<b>Total No. of Periods:10</b>				



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Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
17	<b>Pharmacology of drugs acting on central nervous system</b> a. Neurohumoral transmission in the C.N.S.special emphasis	PPT	2	
18	Importance of various neurotransmitters like with GABA, Glutamate, Glycine, serotonin, dopamine.	PPT	2	
19	b. General anesthetics and pre-anesthetics.	BB	2	
20	c. Sedatives, hypnotics and centrally acting muscle relaxants.	PPT	2	
21	d. Anti-epileptics e. Alcohols and disulfiram	BB	2	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB /OHP/e-material	No. of Hours	
<b>UNIT V</b>				
22	<b>Pharmacology of drugs acting on central nervous system</b> a. Psychopharmacological agents: Antipsychotics, antidepressants	PPT	2	
23	Anti-anxiety agents, anti-manics and hallucinogens	BB	2	
24	b. Drugs used in Parkinsons disease and Alzheimer's disease	PPT	2	
25	c. CNS stimulants and nootropics. d. Opioid analgesics and antagonists	PPT	2	
26	e. Drug addiction, drug abuse, tolerance and dependence.	BB	4	
<b>Total No. of periods: 12</b>				

**Total number of classes: 58**

*K. V. Subba Reddy*

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## **Department of pharmacy**

### **LESSON PLAN**

Faculty Name	:	<b>A.Nagarjuna Reddy</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>Industrial Pharmacy I</b>	Code	:	<b>BP 502 T</b>
Year	:	<b>III B.pharmacy</b>	Semester	:	<b>II Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2021-22 R19</b>

Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT I</b>				
1	Preformulation Studies: Introduction to preformulation, goals and objectives, study of physicochemical characteristics of drug substances.	BB	3	
2	a. Physical properties: Physical form (crystal & amorphous),	BB	3	
3	Particle size, shape, flow properties, solubility profile (pKa, pH, partition coefficient), polymorphism		3	
4	b. Chemical Properties: Hydrolysis, oxidation, reduction, racemisation	BB	3	
5	Polymerization BCS classification of drugs & its significant	BB	2	
6	Application of preformulation considerations in the development of solid, liquid oral and parenteral dosage forms and its impact on stability of dosage form	PPT	2	
<b>Total No. of Periods: 16</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT II</b>				
7	Tablets: a. Introduction, ideal characteristics of tablets, classification of tablets.	PPT & BB	2	

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8	Excipients, Formulation of tablets, granulation methods, compression and processing problems. Filling and packaging; evaluation of liquid orals official in pharmacopoeia	BB	2	
9	Equipments and tablet tooling. b. Tablet coating: Types of coating, coating materials,	BB	2	
10	Formulation of coating composition, methods of coating, equipment employed and defects in coating	PPT	2	
11	Liquid orals: Formulation and manufacturing consideration of syrups and elixir suspensions and emulsions;	PPT & BB	2	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT III</b>				
12	Capsules: a. Hard gelatin capsules: Introduction, Production of hard gelatin capsule shells. size of capsules, Filling, finishing	PPT & BB	2	
13	Special techniques of formulation of hard gelatin capsules, manufacturing defects. In process and final product quality control tests for capsules.	PPT	2	
14	b. Soft gelatin capsules: Nature of shell and capsule content, size of capsules, importance of base adsorption and minim/gram factors, production, in process and final product quality control tests.	PPT	2	
15	Packing, storage and stability testing of soft gelatin capsules and their applications.	BB	2	
16	Pellets: Introduction, formulation requirements, pelletization process, equipments for manufacture of pellets	PPT	2	
<b>Total No. of Periods: 10</b>				

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Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT IV</b>				
17	Parenteral Products: a. Definition, types, advantages and limitations. Preformulation factors and essential requirements, vehicles, additives, importance of isotonicity	PPT	2	
18	b. Production procedure, production facilities and controls, aseptic processing	BB	2	
19	c. Formulation of injections, sterile powders, large volume parenterals and lyophilized products	BB	2	
20	d. Containers and closures selection, filling and sealing of ampoules, vials and infusion fluids. Quality control tests of parenteral products.	PPT	2	
21	Ophthalmic Preparations: Introduction, formulation considerations; formulation of eye drops, eye ointments and eye lotions; methods of preparation; labeling, containers; evaluation of ophthalmic preparations	PPT	2	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OHP/e-material	No. of Hours	
<b>UNIT V</b>				
22	Cosmetics: Formulation and preparation of the following cosmetic preparations: lipsticks, shampoos, cold cream and vanishing cream, tooth pastes, hair dyes and sunscreens.	PPT	2	
23	Pharmaceutical Aerosols: Definition, propellants, containers, valves, types of aerosol systems; formulation and manufacture of aerosols; Evaluation of aerosols; Quality control and stability studies.	PPT	2	
24	Packaging Materials Science: Materials used for packaging of pharmaceutical products,	BB	2	
25	factors influencing choice of containers, legal and official requirements for containers,	BB	2	
26	Stability aspects of packaging materials, quality control tests.	BB	2	
<b>Total No. of periods: 10</b>				

**Total number of classes: 56**

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## **Department of pharmacy**

### **LESSON PLAN**

Faculty Name	:	<b>E.Honey</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>PHARMACOLOGY-III</b>	Code	:	<b>BP602</b>
Year	:	<b>III B.pharmacy</b>	Semester	:	<b>II</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2021-22 R19</b>

<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB/OHP/e-material</b>	<b>No. of Hours</b>
1	1. Pharmacology of drugs acting on Respiratory system a. Anti -asthmatic drugs	BB	3
2	b. Drugs used in the management of COPD c. Expectorants and antitussives	PPT	3
3	d. Nasal decongestants e. Respiratory stimulants		3
4	2. Pharmacology of drugs acting on the Gastrointestinal Tract a. Antiulcer agents.	BB	3
5	b. Drugs for constipation and diarrhoea.	BB	3
6	c. Appetite stimulants and suppressants.	BB	3
7	d. Digestants and carminatives. e. Emetics and anti-emetics.	PPT	3
<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB/OHP/e-material</b>	<b>No. of Hours</b>
8	Chemotherapy a. General principles of chemotherapy. tetracycline and aminoglycosides	PPT & BB	3
9	b. Sulfonamides and cotrimoxazole. c. Antibiotics- Penicillins, cephalosporins,	PPT	3

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10	Chloramphenicol, macrolides, quinolones and fluoroquinolins,	PPT	3
<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB/OHP/e-material</b>	<b>No. of Hours</b>
11	3. Chemotherapy a. Antitubercular agents	PPT & BB	3
12	b. Antileprotic agents c. Antifungal agents	PPT	3
13	d. Antiviral drugs e. Anthelmintics f. Antimalarial drugs g. Antiamoebic agents	PPT	3
<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB/OHP/e-material</b>	<b>No. of Hours</b>
14	3. Chemotherapy l. Urinary tract infections and sexually transmitted diseases.. Chemotherapy of malignancy	PPT	4
15	4. Immunopharmacology a. Immunostimulants b. Immunosuppressant Protein drugs, monoclonal antibodies, target drugs to antigen, biosimilars	BB	3
<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>PPT/BB/OHP/e-material</b>	<b>No. of Hours</b>
16	<b>Principles of toxicology</b> Definition and basic knowledge of acute, subacute and chronic toxicity. b. Definition and basic knowledge of genotoxicity, carcinogenicity, teratogenicity and mutagenicity	PPT	3
17	c. General principles of treatment of poisoning	PPT	3

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18	d. Clinical symptoms and management of barbiturates, morphine, organophosphorus compound and lead, mercury and arsenic poisoning.	PPT	3
19	6. Chronopharmacology a. Definition of rhythm and cycles. b. Biological clock and their significance leading to chronotherapy	PPT	3

**Total number of classes: 58**

  
Signature of the faculty

  
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## **Department of pharmacy**

### **LESSON PLAN**

Faculty Name	:	<b>Dr B.V Ramana</b>	Dept.	:	<b>Pharmacy</b>
Subject Name	:	<b>MOOCS -II (Biostatistics and Design of Experiments)</b>	Code	:	<b>15R00801</b>
Year	:	<b>IV</b>	Semester	:	<b>II-Semester</b>
Degree & Branch	:	<b>B.pharmacy</b>	Academic Year & Regulation	:	<b>2020-21 R15</b>

Lecture No.	Topics to be covered	PPT/BB/OH P/e-material	No. of Hours	
<b>UNIT -1</b>				
1	Introduction to Statistics Various Distributions: Normal Distribution, sample and Population, Z distribution.	BB	20	
<b>Total No. of Periods: 20</b>				
Lecture No.	Topics to be covered	PPT/BB/OH P/e-material	No. of Hours	
<b>UNIT II</b>				
2	Test of Significance, t- test, F test, ANOVA.UNIT III	PPT & BB	10	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OH P/e-material	No. of Hours	
<b>UNIT III:</b>				
3	2 test/odds ratio, Non-Parametric test, other tests.UNIT IV	PPT & BB	10	
<b>Total No. of Periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OH P/e-material	No. of Hours	
<b>UNIT IV</b>				



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4	Design of Experiments: Introduction to design of experiments, screening designs – Data Analysis.	PPT	10	
<b>Total No. of periods: 10</b>				
Lecture No.	Topics to be covered	PPT/BB/OH P/e-material	No. of Hours	
<b>UNIT V</b>				
5	Higher order Designs - Data analysisRegression Analysis – Data reduction	BB	9	
<b>Total No. of periods:9</b>				

**Total number of classes: 59**

  
Signature of the faculty

  
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