



RAGHU COLLEGE OF PHARMACY

(Approved by A.I.C.T.E. PCI New Delhi & Affiliated to Andhra University, Visakhapatnam)

Dakamarri, Bheemunipatnam (Mandalam), Visakhapatnam - 531 162.

I/IV B- PHARMACY (SECTION - A) COURSE PLAN (PRACTICAL) Batch II

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the semester

Subject Code	Name of the Subject	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total labs per Semester / Year
BP209P	Biochemistry	I/IV	K .Balakrishna Assistant professor	27	12

SL. No	Name of the experiment	Date on which conducted
1	Qualitative analysis of carbohydrates	31-07-2023
2	Identification tests for Proteins	07-08-2023
3	Quantitative analysis of reducing sugars (DNSA method) and Proteins (Biuret method)	14-08-2023
4	Qualitative analysis of urine for abnormal constituents	21-08-2023
5	Determination of serum total cholesterol	28-08-2023
6	Determination of blood sugar	04-09-2023
7	Determination of blood creatinine	11-09-2023
8	Preparation of buffer solution and measurement of pH	18-09-2023
9	Study of enzymatic hydrolysis of starch	09-10-2023
10	Determination of Salivary amylase activity	16-10-2023
11	Study the effect of substrate concentration on salivary amylase activity.	30-10-2023
12	Study the effect of Temperature on Salivary amylase activity.	06-10-2023

K. Bale Krishna
Signature of the Faculty Member

Basudha Reddy
Signature of the Principal



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Subject code	Name of the subject	Class/ semester	Name of the faculty/ designation	No. Of Students	Total periods per semester / year	
					lectures	Class tests
BP203T	Applied Biochemistry	I/IV Sec A	K.Balakrishna Assistant professor	55	54	07

Lecture no.	Topic	E.t. gadgets used, If any (lcd/ charts/ models)	Date on which completed*
L1	Introduction	Chalk &Talk	31-07-2023
L2	Biomolecules carbohydrates chemistry	Chalk &Talk	01-08-2023
L3	Classification of carbohydrates.	Chalk &Talk	02-08-2023
L4	Cycles-glycolysis & krebs cycle.	Chalk & talk	04-08-2023
T1	Class test	Handouts	05-08-2023
L5	HMP shunt and its significance, glucose-6-phosphate dehydrogenase deficiency	Chalk & talk	07-08-2023
L6	Glycogen metabolism	Chalk & talk	08-08-2023
L7	Gluconeogenesis	Chalk & talk	09-08-2023
L8	Hormonal regulation and DM	Chalk & talk	11-08-2023
L9	Hormonal regulation and DM	Chalk & talk	14-08-2023
L10	electron transport chain	Chalk & talk	16-08-2023
L11	electron transport chain	Chalk & talk	18-08-2023
T2	Class test	Handouts	19-08-2023
L12	Oxidative phosphorylation and mechanism and substrate level phosphorylation	Chalk & talk	21-08-2023
L13	Inhibitors and oxidative phosphorylation/uncouplers Level	Chalk & talk	22-08-2023
L14	Lipid introduction	Chalk & talk	23-08-2023

L15			
L16	Lipid introduction classification, Chemical nature and biological role of lipids	Chalk & talk	25-08-
L17		Chalk & talk	26-08-20
L18	Beta oxidation of palmitic acid	Chalk & talk	28-08-2023
T3	formation and utilization of ketone bodies Class test	Chalk & talk	29-08-2023
L19		Handouts	30-08-2023
L20	Denova synthesis of fatty acids	Chalk & talk	01-09-2023
L21	significance of cholesterol, Conversion of cholesterol into bile acids and steroid hormones and vitamin D	Chalk & talk	02-09-2023
L22	Disorders of lipid metabolism	Chalk & talk	04-09-2023
L23	Disorders of lipid metabolism	Chalk & talk	05-09-2023
L24	Applications	Chalk & talk	06-09-2023
L25	Chemical nature of aminoacids	Chalk & talk	08-09-2023
L26	Chemical nature of proteins	Chalk & talk	11-09-2023
T4	Biological role and reactions of aminoacid Tutorials	Chalk & talk	12-09-2023
L27		Handouts	13-09-2023
L28	transamination ,deamination and decarboxylation	Chalk & talk	15-09-2023
L29	Urea cycle and disorders, catabolism of phenylalanine and tyrosine	Chalk & talk	16-09-2023
L30	Metabolic disorders phenylketonuria, Albinism,alkeptonuria Tyrosinemia	Chalk & talk	18-09-2023
L31	Synthesis and significance of 5-hydroxy tryptophan , melatonin ,dopamine, noradrenaline and adrenaline.	Chalk & talk	20-09-2023
L32	catabolism of heme,hyperbilirubinemia and jaundice	Chalk & talk	22-09-2023
L33	Bioenergetics;-concept of free energy, Exergonic and endergonic reactions	Chalk & talk	23-09-2023
L33	Relationship between free energy , Enthalpy and Entropy, redox potentials	Chalk & talk	25-09-2023
T5	Tutorials	Handouts	26-09-2023
L34	Energy rich compounds -Classification	Chalk & talk	29-09-2023
L35	biological significance of atp,Cyclic amp	Chalk & talk	30-09-2023
L36	Chemical nature and biological role of nucleic acids	Chalk & talk	03-10-2023
L37	Biosynthesis of purine nucleotides	Chalk & talk	04-10-2023
L38	Bio synthesis of amines	Chalk & talk	06-10-2023
			07-10-2023

L39	Biosynthesis pyrimidine nucleotides	Chalk & talk	09-10-2023
L40	Catabolism of purine nucleotides	Chalk & talk	10-10-2023
L41	hyperuricemia and gout disease organization of mammalian genome	Chalk & talk	11-10-2023
T6	Tutorials	Handouts	13-10-200
L43	Structure of DNA and functions.	Chalk & talk	16-10-2023
L44	DNA replication (semi conservative model)	Chalk & talk	17-10-2023
L45	Transcription ,genetic code	Chalk & talk	18-10-2023
L46	protein synthesis ,protein synthesis and inhibitotrs	Chalk & talk	25-10-2023
L47	Enzymes	Chalk & talk	27-10-2023
L46	Enzymes : introduction, Properties Factors	Chalk & talk	28-10-2023
L47	Enzyme kinetics (michaelisplot,line weaver burke plot), Inhibitors	Chalk & talk	30-10-2023
L48	Regulation of enzyme: induction and repression and allosteric	Chalk & talk	31-10-2023
L49	Therapeutic an diagnostic applications, Isoenzymes	Chalk & talk	01-11-2023
L50	Co -enzymes	Chalk & talk	03-11-2023
L51	Coenzymes -structure and biochemical functions	Chalk & talk	04-11-2023
T7	Class test	Handouts	06-11-2023
L52	Study hour		07-11-2023
L53	Study hour		08-11-2023
L54	Study hour		10-11-2023

Signature of the faculty member


signature of the principal