

Name of Faculty : **Dr. Neelam , Assistant Professor**
Discipline : **All branches**
Semester : **B Tech 1st yr**
Subject : **Biology-(B24-BSC-106)**

Lesson Plan Duration: 15 weeks

Work Load (Lecture/Practical) per week (in hours): **Lectures 03 hours**,

Wee k	Theory	
	Lecture Day	Topic (Including Assignment/Test)
1 st	1	UNIT -1 concept and definition of Biology,importance of biology
	2	Characterstic feature of living organisms
	3	Cell ultra-structure and function of cell organelles like nucleus
2 nd	4	Cell ultra-structure and function of cell organelles endoplasmaic reticulum
	5	Difference between prokaryotic cell and eukaryotic cell
	6	Difference between animal cell and plant cell
3 rd	7	Classification of the organisms on the basis of energy,carbon utilization ,Nitrogen Excretion and habitate
	8	Unit-2 Introduction of biomolecules ,details about biomolecules
	9	Gerenal classification and function of carbohydrates
4 th	10	Gerenal classification and function of lipids
	11	Gerenal classification and function of proteins
	12	Details about proteins and importance of proteins
5th	13	Structure and types of nucleic acid
	14	Helical structure of DNA and types of DNA
	15	Properties of DNA and its function
6th	16	Structure of RNA and its types,function of RNA
	17	Gerenal characteristics and importance of Enzymes
	18	Classification of enzymes,nomenclature of enzymes
7th		1 st minor test
8th	22	Factors affecting enzymes ,substrate concenteration on the activity of enzymes
	23	Elementary concept of coenzymes
	24	Mechanism of enzymes
9th	25	Unit -3 Mendel's laws inheritance
	26	Details about law of dominant,law of segregation, law of independent assortment
	27	Details about mitosis and meosis
10th	28	Genetic disorders single genes disorder
	29	Genetic disorders multiple genes disorder
	30	Genetics of blood groups
11th		Minor Test
12th	34	Diabetes type 1
	35	Diabetes tyie 2
	36	Unit -4 concepts of genetic Engg.
13th	37	Definition ,tools used in recombinant DNAtechnology
	38	Enzymes,vectors and passengerDNA
	39	Role of biology in agriculture
14th	40	Role of biology in agriculture
	41	Role of biology in medicine
	42	Role of biology in forensic science
15th	43	Role of biology in Bioinformatics
	44	Revision of all syllabus
	45	3 rd minor test