

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	Characteristic 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 endoplasmic 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 habitat
	8	Unit-2 Introduction of biomolecules ,details about biomolecules
	9	General classification and function of carbohydrates
4 th	10	General classification and function of lipids
	11	General classification and function of proteins
	12	Details about proteins and importance of proteins
5 th	13	Structure and types of nucleic acid
	14	Helical structure of DNA and types of DNA
	15	Properties of DNA and its function
6 th	16	Structure of RNA and its types,function of RNA
	17	General characteristics and importance of Enzymes
	18	Classification of enzymes,nomenclature of enzymes
7 th		1 st minor test
8 th	22	Factors affecting enzymes ,substrate concentration on the activity of enzymes
	23	Elementary concept of coenzymes
	24	Mechanism of enzymes
9 th	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 meiosis
10 th	28	Genetic disorders single genes disorder
	29	Genetic disorders multiple genes disorder
	30	Genetics of blood groups
11 th		Minor Test
12 th	34	Diabetes type 1
	35	Diabetes type 2
	36	Unit -4 concepts of genetic Engg.
13 th	37	Definition ,tools used in recombinant DNA technology
	38	Enzymes,vectors and plasmid DNA
	39	Role of biology in agriculture
14 th	40	Role of biology in agriculture
	41	Role of biology in medicine
	42	Role of biology in forensic science
15 th	43	Role of biology in Bioinformatics
	44	Revision of all syllabus
	45	3 rd minor test