No.	Information of the subject	
1.	Unit name:	Molecular Genetic
2.	Code:	BioT 22041
3.	Classification:	Core subject
4.	Credit value:	3.5
5.	Semester/Year Offered:	2/2
6.	Pre-requisite:	NA
7.	Mode of delivery:	Presentations, Lectures
8.	Assessment system and breakdown of marks:	Tutorial
	Tutorial	20%
	Mid-term exam	40%
	Final exam	40%
9.	Academic staff teaching unit:	Department of Biotechnology
10.	Course outcome of unit: After completion of this course, students will be able to 1. learn the structure of DNA and chromosome organization 2. Recognize the mechanism of DNA replication in both prokaryotes and eukaryotes 3. Realize the different types of RNAs and their functions produced in prokaryotes and eukaryotes and transcription mechanisms in both cell types 4. Describe the general structure of amino acids, levels of protein structure and translation mechanisms in both prokaryotes and eukaryotes 5. Realize the different types of mutations and their causes	
11.	Synopsis of unit: This module of molecular genetics is designed to give the knowledge and comprehension of the structure of DNA and chromosome, DNA replication, gene expression and control in both prokaryotes and eukaryotes and mutations.	
12.	Topics 1. DNA Structure and Chromosome Organization 2. DNA Replication 3. Gene Expression – Transcription 4. Gene Expression – Translation 5. Mutations	
13.	Main reference: • David R Hyde: “Introduction to Genetic Principles”	
14.	Additional references: • Waston et al., “Molecular Biology of the Gene”	