**WEEK WISE LESSON PLAN, Even Semester 2022**

Name of the Assistant Professor: **Dr. RAVINDER KAUR**

Class and Section: **B. Sc. MEDICAL, IIndSemester,** Subject: **BOTANY,** Paper- **Genetics**

**Week wise Lesson Plan for the month April, 2022**

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| **Week** | **Topics** |
| **3** | Genetic material: DNA- Genetic material, DNA structure |
| **4** | DNA replication, DNA-Protein interaction |

**Week wise Lesson Plan for the month May, 2022**

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| **Week** | **Topics** |
| **1** | Nucleosome Model, Genetic Code, Satellite and Repetitive DNA |
| **2** | Genetic inheritance: Mendelism: Laws of segregation and Independent Assortment |
| **3** | Linkage Analysis, Allelic and non-allelic interactions |
| **4** | Mutations- Spontaneous and induced, transposable genetic elements; DNA damage and repair. |

**Week wise Lesson Plan for the month June, 2022**

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| **Week** | **Topics** |
| **1** | Modern concept of gene; RNA; Ribosomes |
| **2** | Transfer of genetic information – transcription |
| **3** | Translation (Protein synthesis) |
| **4** | Regulation of gene expression in prokaryotes and eukaryotes; 1-D, 2-D and 3-D structure of Proteins. |

**Week wise Lesson Plan for the month July, 2022**

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| **Week** | **Topics** |
| **1** | Extra Nuclear Inheritance: Presence and function of Mitochondrial and Plastid DNA, Plasmids. |
| **2** | Revision of the whole syllabus   * Through audio-visual practice * Diagram practice, Group discussion * Seminars and power point presentations * Oral and written tests |