

**HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN**

Under CBCS - Semester - Grading Pattern

**B.Sc. :: SEMESTER-III & IV :: BOTANY**

Elective Course (Subject) :: ES BOT-211

**DNA-a molecule of Life**

(in force from June 2012)

Teaching Hours per Week: 2

Credits-2

Sem = IV

**Unit-I :: STRUCTURE OF DNA**

1. Introduction, definition, Brief History of DNA
2. Double Helical Structure of DNA and its Components
3. Form of DNA and its unusual structure
4. Physical properties of DNA and DNA denaturation

**Unit-II :: FUNCTIONS OF DNA**

1. DNA as a genetic material
2. DNA Replication is semiconservative
3. DNA Transcription
4. Applications of DNA in Modern techniques

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