



**SARVODAYA KELAVANI SAMAJ MANAGED,
SHREE MANIBHAI VIRANI & SMT. NAVALBEN VIRANI SCIENCE
COLLEGE**

AN AUTONOMOUS COLLEGE- AFFILIATED TO SAURASHTRAUNIVERSITY, RAJKOT

Re-accredited at the 'A' Level (CGPA 3.28) by NAAC

'STAR' College Scheme & Status by MST-DBT

A College with Potential for Excellence - CPE (Phase-II) by UGC

UGC-DDU KAUSHAL Kendra

Accredited at the G-AAA Highest Grade 'A-1' Level by KCG, Govt. of Gujarat

UGC-DDU KAUSHAL Kendra

GPCB-Government of Gujarat approved Environment Audit Centre

Department of Biology

Enclosure-II

PART – II – GENERIC ELECTIVE COURSES

(to be offered in Semester VI)

19UBIGE601	WILD LIFE ECOLOGY	2 Hrs / week	2 credits
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Objectives:

- To enable the students to understand the nature and occurrence of wild life and its ecology.
- Educating the students about the need to protect and preserve the environment as long range goal for welfare of future generation.

Unit-1: Ecosystem management and conservation

(6 Hrs)

- Introduction
- Definitions
- Gradients of communities
- Niches

- Food webs and intertrophic interactions

Unit – 2: Animals as individuals

(6 Hrs)

- Introduction
- Adaptation
- Examples of adaptation
- Applied aspects
- Natural selection

Unit – 3: Sanctuaries

(6 Hrs)

- Khijadiya bird sanctuary
- Kutch desert wild life sanctuary
- Nal-sarovar bird sanctuary
- Barda wild life sanctuary
- Hingolghadh sanctuary

Unit – 4: National Parks

(6 Hrs)

- Gir forest national Park
- Marine national park
- Velavadar kadiyar national Park
- Ranthambhor tiger national park

Unit – 5: Conservation

(6 Hrs)

- Wild life management
- Wild life Acts
- Wild life conservation
- Control
- Field Visit

Text Books:

- E. A. Thomas, Forest management, 3rd edition, 2014, Bellington publication.

- Gopal Rajesh, Introduction to Wild life management, 2nd edition, 2011, Natraj Publishers.

Reference Books:

- Anthony R. E., Wild life ecology, conservation and management, 2nd edition, Black well publishing
- Singh J. S., Singh S. P., Gupta S. R., Ecology, environment and resource conservation, Edition 2nd (2006) Anamaya publication, New Delhi.