WILD LIFE BIOLOGY

•		Category Lectur	re Theory		Practical	Credits		
	Code		Hrs/ week	Total Hours/ Semester	Hrs/ week	Total Hours/ Semester		
III		Elective- III	3	45	3	45	Nil	3

COURSE OBJECTIVES:

- To learn the fundamentals of biodiversity and gain insights on values of wildlife.
- To study grounds of habitat loss in animals and ensure species assessments.
- To familiarize with tools and techniques employed for studying wildlife, habitat and ecosystem process.
- To know laws and regulations adopted for animals.
- To provide students with a multidisciplinary education in Wild life biology.

COURSE OUTCOMES:

On the successful completion of the course, students will be able to:

CO	CO Statement	Knowledge Level
Number		(K1-K4)
CO1	To get employment opportunities in the wild life	K3
	conservation.	
CO2	To learn about the wild life inventory studies of	K 1
	Vertebrates, Invertebrates and Plants.	
CO3	To know about the Conservation priorities.	K4
CO4	To acquire knowledge on wild life senses techniques.	K3
CO5	To gain knowledge on the working of various	K4
	International and National animal laws and projects.	

Knowledge Level: K1-Remember; K2 – Understand; K3 – Apply; K4 – Analyze

MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5
CO1	S	M	M	S	S
CO2	M	S	S	M	S
CO3	S	M	S	M	S
CO4	M	S	M	S	M
CO5	S	M	S	M	S

S- Strong; M – Medium; L- Low

DISTRIBUTION OF MARKS: THEORY 100%

UNIT – I 9 Hours

INTRODUCTIONAND SCOPE OF WILDLIFE

Wildlife concept, Causes of wildlife depletion, degradation and destruction of wildlife habitats, exploitation for commercial purposes, deforestation, urbanization, and industrialization, hunting, forest fire, and for agricultural expansion.

UNIT – II 9 Hours

SIGNIFICANCE OF WILDLIFE MANAGEMENT

Importance of wildlife conservation –(ecological, ethical, educational, scientific, commercial,aestheticandrecreational)wildlifecategories-

endangered,threatened,vulnerable,rare and extinct species. Red data book, green data book. Wild life corridors, human wildlife conflicts, Role of tribes in wild life management

UNIT-II 9 Hours

WILDLIFE SURVEY AND INVESTIGATORY STUDIES

Direct count: Line transects, Point counts. Mark-recapture. Indirect count: pellet count, calls, sent mark, camera trap, radio telemetry, remote sensing. Behavioral sampling

Total species list, total genera or families list, parallel-line searches, encounter rates, documenting rarities, sample collection of dead (plants, fungi, invertebrates, fishes, amphibians reptiles, birds and mammals), labeling and preservation.

UNIT – IV
WILDLIFE CONSERVATION
9 Hours

Wild life legislation: IBWL, Wild life protection Act,1972.wild life conservation strategies:IUCN classification, protected area network. In situ conservation-wild life sanctuaries, national parks, bioreserves and their management, Ex situ conservation-captive breeding, modern zoo, safari, zoo authority of India ,Artificial insemination ,cryopreservation and germplasm banks

UNIT - V WILDLIFE PROJECT

9 Hours

- A. Tiger project- Tiger species, distribution, threats, conservation action taken,
- B. Elephant project: Elephants species, distribution, threats, conservation action taken.
- C. Crocodile Project-crocodile species, distribution, threats, conservation action taken.
- D. Vulture crisis in India, Wildlife Laws.

TEXT BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF
				PUBLICATION
1.	Sutherland	The conservation hand	Blackwell	2000
	W.J	book:research, management	Science Ltd	
		and policy		
2.	William	A Practical handbook for	The Nature	1999
	Morris,	Population Viability	Conservancy	
	Daniel Doak,	Analysis		
	Martha	-		
	Groom et al.			
3.	Rodgers,	Planning a Protected Area	Wildlife	1988
	W.A. and	Network in India	Institute of	
	H.S. Panwar .		India, Dehra	
			Dun	

4.	Anon.	Convention on Biological	World Wide	1992
		Diversity - Text and	Fund for Nature	
		annexes	- India.	
5.	Giles, H	Wildlife Management	Natraj	1984
		Techniques	Publishers,	
		_	Dehra Dun	

REFERENCE BOOKS

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF
				PUBLICATION
1.	Martin and Bateson	Measuring	Cambridge	2007
		Behaviour	University Press	
2.	Andrawartha, H.C.	The distribution	The University of	1974
	and L.C. Birch.	and abundance of	Chicago press,	
		animal.	London	
3.	Agarwal, V.P.	Forests in India	Oxford and IBH	1980
			Publishing Co. New	
			Delhi	
4.	Davis, M.	Infectious	The IOWA state	1981
		diseases of wild		
		mammals.		
5.	Saharia, V.B.	Wild life in India	Nataraj Publishers,	1982
			Dehra Dun.	
6.	Gopal, R.	Fundamentals of	Justice Home.	1992
		Wildlife	Allahabad.	
		Management.		

WEB SOURCES:

www.wildlifebiology.org www.environmentalscience.org www.ncbs.res.in

www.nature.com

TEACHING METHODOLOGY

- Class room teaching
- Assignments, Seminars and Models
- Group Discussions
- Home test
- PPT Presentations
- Board and chalk
- Demonstration from the Video slides, Animated videos and interactive software.

SYLLABUS DESIGNERS

- Dr D.Sasikala, Assistant Professor & HOD
- Dr.V.Kiruthiga, Assistant Professor
- Dr V.Rekha, Assistant Professor
- DrA. Vinodhini, Assistant Professor
- Dr.G.Vidhya, Assistant Professor
- Dr. S. Vijayakumari, Assistant Professor