



SHRI VAISHNAV VIDHYAPEETH VISHVAVIDHYALAYA, INDORE

SHRI VAISHNAV INSTITUTE OF FORENSIC SCIENCE

GENERIC ELECTIVE

UNDER GRADUATE

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
FSU103	GE	Wildlife Forensics	60	20	20	00	00	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C -Credit.

***Teacher Assessment** shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives: The course aims to provide the students with

1. Nature of Wildlife crimes
2. Methods of investigation of wildlife crime
3. Legal protections to wildlife

Course Outcomes: After studying this course, the students will

1. Understand different types of wildlife crimes and their Forensic investigation
2. Will understand legal aspects of wildlife crime

Unit I

Wildlife Forensic: Protected and endangered species of animals and plants; Sanctuaries and their importance; Relevant provision of wild life and environmental act; Enforcement of wildlife protection policy, Wildlife (Protection) Act-1972 .

Unit II

Types of wildlife crimes, different methods of killing and poaching of wildlife animals; Recovering evidence at poaching scenes, Locating the burial: Anomalies on the surface international trade in reptile skins, Challenges to species identification of reptile skin products, species and products represented in the reptile skin trade, reptile scale morphology basics and current limitations, Identifying features of major reptile groups.

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Unit III

Environmental Forensics: Introduction to Environmental Forensics. Mercury- Natural and anthropogenic sources, detecting mercury in indoor environment and forensic aspects. Asbestos-sources and detection in air, water, fibres etc. Sewage, Lead- sources, compounds, and lead forensics. Arsenic- sources, compounds, analytical methods and forensic aspects. Pesticides- Types, analytical testing and forensic techniques. Crude oil and refined products-oil analysis methods, oil spill analysis protocol

Unit IV:

Environmental Legislation: central and state boards for the prevention and control of environmental pollution, powers and functions of pollution control boards, penalties and procedure, duties and responsibilities of citizens for environmental protection.

Unit V:

The Water (Prevention and Control of Pollution) Act 1974. Prevention and Control of Air Pollution Act 1981, Forest Conservation Act 1981, Environment (protection) Act 1986, Hazardous waste (Management and Handling) Rules, 1989, Bio-Medical Waste (Management and Handling) Rules, 1998. Issues involved in enforcement of environmental legislation, public awareness, and public interest litigations (PILs) and its role in control of environmental pollution in India.

Suggested Readings

1. Forensic science in wild life investigation, Linarce, Adrian CRC Press, Taylor & Francis
2. The wild life (protection) act, Baalu, T.R. 1972, Nataraj Publication
3. Wild life (Protection act, 1972), Universal Publication
4. Wildlife protection act, 1972; Natraj Publishers

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5. Instrumental Methods of Analysis 6th Edition. (1986): H.H. Willard, L.L. Merritt Jr. and others. CBS Publishers and Distributors.
6. Instrumental Methods of Chemical Analysis. (1989): Chatwal G and Anand, S. Himalaya Publishing House, Mumbai.
7. A Biologists Guide to Principles and Techniques of Practical Biochemistry. (1975): Williams, B.L. and Wilson, K.

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