

CLASS:- LL.M. 3rd SEMESTER

OPTIONAL PAPER

REGULATION OF TECHNOLOGICAL ADVANCEMENT REGARDING

ENVIRONMENT PROTECTION

Paper: 303-D

Max. Marks: 100

Credits: 5

Time: 3 Hours

Note:

1. There shall be total Five Units in the question paper.
2. Unit-I shall contain one compulsory question having four parts of five marks each. This question shall be spread over the entire syllabus.
3. There shall be two questions in each Unit i.e. Unit-II to Unit-V.
4. The student is required to attempt four questions by selecting one question from each unit i.e. Unit-II to Unit-V. Each question shall carry twenty marks.

COURSE OBJECTIVES:

- To introduce students to the regulatory frameworks governing technological advancements in environmental protection.
- To explore the relationship between sustainable development goals and environmental regulations.
- To analyze the impact of communication technology on environmental conservation efforts.
- To examine the ethical considerations surrounding technological advancements in environmental protection.
- To evaluate the intersection of bioethics, environmental ethics, and legal regulations in addressing environmental challenges.

UNIT-I

Introduction

- Science, Technology, Innovation – relationship – potential benefits and risks associated with technology and environment. Environment and Science trans – disciplinary perspective
- Technicalities that deplete natural resources – Alternatives – Green Technologies – Smart Technologies.
- National, Regional International and Transnational Legal Frameworks.

UNIT-II

Sustainable Development goals and environment

- Sustainable Development Goals (SDGs) and Environment
- Role of United Nations in dealing with Sustainable Development – Centres for promoting Sustainable Development – Role of Civil Society in promoting Sustainable Development
- Transboundary Environmental Assessment and Role of Technology – Technology innovation for Sustainable Development – Alternate technologies and environmental impact.

UNIT-III

Communication technology and environment

- Communications Technologies – Environmental Impacts – radiation impact on flora and fauna and humans. Information and Communication Technology (ICT) Revolution: Its Environmental Impact and Sustainable Development.
- Electronic Infrastructure – Legal regulation for managing communication technologies. Electrical Energy Production – Digital Coin Mining –Smartphones revolution and environment impact.
- E Waste Management – regulatory frameworks.

UNIT-IV

Bio ethics and Law/ Environmental ethics and law

- Bioethics – Risk Identification & Analysis: Methodological Issues & Ethical Issues in the Scientific Process – The Public Health Model of Environmental Policy: the reduction of morbidity & mortality.
- Bio ethics and Law – definition of harm and monetary valuation of environmental goods.
- Animal testing ethics of animal research. – Access and Benefit Sharing – Payments for ecosystem services: Legal and Institutional Frameworks.

COURSE OUTCOME:

- Students will be able to demonstrate understanding of the regulatory landscape governing technological advancements for environmental protection.
- Students will be able to identify the role of sustainable development goals in shaping environmental policies and regulations.

- Students will be able to analyze the contributions of communication technology to environmental monitoring, management, and advocacy.
- Students will be able to evaluate ethical dilemmas and implications arising from technological innovations in environmental protection.
- Students will be able to apply principles of bioethics, environmental ethics, and legal frameworks to address contemporary environmental challenges associated with technological advancements..

SUGGESTED READINGS:

1. Samantha Hepburn : Mining and Energy Law, Feb 2020
2. Alexandra B. Klass : Energy Law
3. Kim Talus : Introduction to EU Energy Law
4. Raphael J. Heffron : Energy Law: An Introduction
5. Barlow Burke :The Law and Regulation of Mining: Minerals to Energy