

SKILL ENHANCED COURSE

For Full Theory Paper- 2 periods/wk; Composite paper – (1theory+2practical) periods/wk

SEC 1: BIOSAFETY AND INTELLECTUAL PROPERTY RIGHTS (Full Theory paper) SEMESTER –III

HMBSE3011T

TOTAL CLASSES: 26

CREDITS: 2

Marks 80

Unit 1

No of classes: 6

Biosafety: Introduction; biosafety issues in biotechnology; Biological Safety Cabinets & their types;

Primary Containment for Biohazards; Biosafety Levels of Specific Microorganisms

Unit 2

No of Classes: 6

Biosafety Guidelines: Biosafety guidelines and regulations (National and International); GMOs/LMOs- Concerns and Challenges; Role of Institutional Biosafety Committees (IBSC); Environmental release of GMOs; Risk Analysis; Risk Assessment; Risk management and communication; Overview of International Agreements - Cartagena Protocol.

Unit 3

No of Classes: 5

Introduction to Intellectual Property: Patents, Types, Trademarks, Copyright & Related Rights, Industrial Design and Rights, Traditional Knowledge, Geographical Indications- importance of IPR

Unit 4

No of Hours: 5

Grant of Patent and Patenting Authorities: Types of patent applications: Ordinary, PCT, Conventional, Divisional and Patent of Addition; An introduction to Patent Filing Procedures; Patent licensing and agreement; Patent infringement- meaning, scope.

Unit 5

No of Hours: 4

Agreements and Treaties: GATT, TRIPS Agreements; Role of Madrid Agreement; Hague

Agreement;

WIPO Treaties; Indian Patent Act 1970 & recent amendments.

Suggested Reading

1. Bare Act, 2007. Indian Patent Act 1970 Acts & Rules, Universal Law Publishing Co. Pvt. Ltd., New Delhi.
2. Kankanala C (2007). Genetic Patent Law & Strategy, 1st Edition, Manupatra Information Solution Pvt. Ltd. New Delhi.
3. Singh K K (2015). Biotechnology and Intellectual Property Rights: Legal and Social Implications, Springer India.
4. Goel D & Prashar S (2013). IPR, Biosafety and Bioethics. Pearson
5. Senthil Kumar Sadhasivam and Mohammed Jaabir, M. S. 2008. IPR, Biosafety and biotechnology Management. Jasen Publications, Tiruchirappalli, India.