

Elective Course IV (EC) – Quality Control & IPR

Unit – I : Bioethics

Legality, morality and ethics, the principles of bioethics, autonomy, human rights, beneficence, privacy justice equality etc.

Unit – II : Biosafety

Concept and issues, rational Vs subjective perceptions of risks and benefits – relationship between risk hazard, exposure, and safe guards – biosafety concerns at the level of individuals, institutions, society, region country and the world – Lab associated infections.

Unit – III : Biosafety assessment (BSA)

BSA of biotechnology and pharmaceutical products such as drugs – vaccines – biomolecules etc.

Unit – IV : Quality control

Quality control in food process technology – WHO standards – Quality control in dairy product technology – Quality control for potable water.

Unit – V : IPR

GATT and IPR, forms of IPR, IPR in India, WTO Act, Convention on Biodiversity (CBD), Patent Co-operation Treaty (PCT), forms of patents and patentability, process of patenting, Indian and international agencies involved in IPR & patenting, Global scenario of patents and India's position, patenting of biological material, GLP, GMP.

References:

- Frederic H. Erbis, Karim M. Maredia (2004). Intellectual Property Rights in Agricultural Biotechnology, CABI Publisher.
- Mittal D.P. (1999). Indian Patents Law. Taxmann Allied Services (p) Ltd.
- Christian Lenk, Nils Hoppe, Roberto Andorno (2007). Ethics and Law of Intellectual Property: Current Problems in Politics, Science and Technology, Ashgate Publisher (p) Ltd.
- Felix Thiele, Richard E. Ashcroft (2005). Bioethics in a Small World. Springer.
- John Bryant (2002) Bioethics for Scientists. John Wiley and Sons Publisher.