

MAJOR BASED ELECTIVE I - BIOETHICS

UNIT I:

General Ethical Concerns: The use of nature, Different views of Nature, Dynamic Nature, Interfering with Nature, Integrity of Species; Reducing Genetic Diversity ; Biological Warfare; Public perception of Science.

UNIT II:

Medical Ethics, History and Culture: The Hippocratic tradition: A Profession , Philanthropy, Do no harm. Adoption to the Oath by Western Medicine. Competing Ethical Traditions; Retaining the Hippocratic Oath.

UNIT III:

Status of Human Embryo: Human Embryonic Development; Ethics through Embryo Development: Fertilization, The Fetus and feeling pain; Scientific Research on Human Embryos: Experimental goals of Human Embryo Research, Human Development; How much Embryo Experimentation in Ethical?

UNIT IV:

Animal Rights: Making New Strains of Animal: Ethical limits of Animal use: Religious Views of Animal status; Philosophical views of Animal status; Regulations.

UNIT V:

Human Gene Therapy: Ethics of Somatic Cell Gene Therapy: Efficiency of treatment; Safety of Transferred Genes; Protecting Human life; Affect on family life; Economic factors; When we should use Gene therapy?

References:

Nancy, S. Jecker., Albert R. Johnson, Robert A. Pearlman. Bioethics: An Introduction to history, methods and practice (1997). Sudbury, M.A.; Jones and Barlett Publishers.

Tom, L. Beauchamp., Childress, F. Principles of biomedical ethics, 5th Edition, Oxford Univerisity Press. 2000.