

# GUJARAT TECHNOLOGICAL UNIVERSITY

## B. E. SEMESTER: VI

### Bio - Technology

Subject Name: **Bioethics, Patents and IPR**

Subject Code: **160406**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
2	0	0	2	70	30	50

#### UNIT I

Sr. No	Course Content	Total Hrs.
1.	The legal and socioeconomic impact of biotechnology	3
2.	public education of the process of biotechnology involved in generating new forms of life for informed decision making	3
3.	biosafety regulation and national and international guidelines, r-DNA guidelines, experimental protocol approvals, levels of containment, Environmental aspect of biotech applications, use of genetically modified organism and their release in environment Special procedures for r-DNA based product production	10

#### UNIT II

Sr. No	Course Content	
1.	Intellectual property rights, TRIPS, International conventions patents and methods of application of patents.	7

#### UNIT III

Sr. No	Course Content	Total Hrs.
1.	Legal implications, biodiversity and farmers right, other Acts.	4
2.	Beneficial application and development of research focus to the need of the poor	3
3.	Identification of directions for yield effect in agriculture, aquaculture etc.,	2

**Text Books:**

Bioethics

1. S. Ignacimuthu s.j., Bioethics, Narosa Publishing House, Recent Edn IPR and Patents
2. David Bainbridge, Intellectual Property, Pearson Longman

**Reference Books:**

1. Biotechnology in the Welfare of Mankind – Ali Khan
2. Sasson A., Biotechnologies in developing countries present and future, UNESCO Publishers, 1993
3. Singh K., Intellectual Property Rights on Biotechnology, BCIL, New Delhi.
4. Biotechnology and Genomics, P.K. Gupta, Rastogi Publications.