

Lesson Plan

Name of the Faculty : Er. Ritika Gera
Discipline : Biotechnology
Semester : 8th sem
Subject : BIOSAFETY, IPR AND BIOETHICS (BT-404N)
Lesson Plan Duration : 15 Weeks (From Feb,2021 to Jun, 2021)

*Work Load (Lecture/Practical) per week (in hours): Lecture- 03, Tut-00; Practical- 00

Week	Theory	
	Lecture Day	Topic (including assignment /test)
1 st	1 st	Biosafety and risk assessment issues
	2 nd	-do-
	3 rd	Regulatory framework; National biosafety policies and law
2 nd	4 th	-do-
	5 th	The Cartagena protocol on biosafety.
	6 th	-do-
3 rd	7 th	WTO and other international agreements related to biosafety
	8 th	-do-
	9 th	Cross border movement of germplasm;
4 th	10 th	Risk management issues – containment
	11 th	-do-
	12 th	Revision
5 th	13 th	General principles for the laboratory and environmental biosafety
	14 th	Health aspects; toxicology, allergenicity, antibiotic resistance, etc;
	15 th	-do-
6 th	16 th	Impact on environment: gene flow in natural and artificial ecologies
	17 th	-do-
	18 th	Sources of gene escape, tolerance of target organisms,
7 th	19 th	Revision
	20 th	Creation of superweeds/ super viruses, etc.
	21 st	-do-
8 th	22 nd	Ecological aspects of GMOs and impact on biodiversity.
	23 rd	-do-
	24 th	Monitoring strategies and methods for detecting transgenics
9 th	25 th	Revision
	26 th	Radiation safety and non-radio isotopic procedure
	27 th	-do-
10 th	28 th	Benefits of transgenics to human health, society and the environment.
	29 th	-do-
	30 th	Risk associated with GMO
11 th	31 st	The WTO and other international agreements
	32 nd	-do-
	33 rd	Intellectual properties, copyrights, trademarks
12 th	34 th	Trade secrets, patents, geographical indications, etc

	35 th	Revision
	36 th	Protection of plant variety and farmers right act
13 th	37 th	-do-
	38 th	Indian patent act and amendments
	39 th	-do-
14 th	40 th	Patent filing
	41 st	Convention on biological diversity
	42 nd	Implications of intellectual property rights on the commercialization biotechnology products.
	43 rd	Revision
	44 th	Revision
	45 th	Revision