Course name & Credit hrs.: Principles of Genetics [MGPB0501 (2-1-0)]

Assignments Topics

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Sl. No	Reg No	Name	Topics
1			Epigenetics and its applications in crop
			improvement
2			Telomerase activities
3			Pre-mendelian, mendelian and post
			mendelian concept of inheritance
4			Genome imprinting and its application in
			crop improvement
5			Transposable elements and its application in
			crop improvement
6			Mutation and its application in crop
			improvement
7			GM Crops: An Overview
8			Somatic cell genetics
9			Cisgenesis: An alternative tool for
			transgenesis
10			Transgenesis and its application in crop
			improvement
11			Mutation and molecular basis of mutation
12			Somatic cell genetics
13			Prospective of GM crops
14			Topoisomerase
15			Gene therapy and its application
16			CRISP-Cas-9 technology of gene editing
17			Reverse Genetic Approach
18			Apoptosis and its importance
		Internal-II	(PPT) Topics
1			VIGS and its application in crop
			improvement
2			Phenomics in crop improvement
3			Programme cell death
4			Riboswitch and its application
5			Reverse genetics and its application in crop
			improvement
6			RNA Processing and its importance
7			Behavioural genetics
8			TILLING: A novel approach in crop
			improvement
9			CRISPR (Clustered Regularly Interspaced
			Short Palindromic Repeats): A novel tool in
			crop improvement
10			Synthetic DNA
11			RNA Processing
12			TILLING: A novel approach in crop
_			improvement.

13	Human Genome Project and its application
14	Next generation sequencing and its
	application in crop improvement
15	Gene silencing and its application in crop
	improvement
16	Polymerase chain reaction and its
	importance in crop improvement
17	Importance of chromosomal aberration
18	Concept on evolution life on the earth