

## VALUE ADDED COURSE

### Specialized Workshop on Plant Tissue Culture and Bioinformatics

#### Itenary of the Workshop

Date( Tentative)	Day		FN Session		AN Session
28.11.2022	Day 1	09:15 am - 10:15 am	Welcome Speech addressing the participants of the workshop Division of participants into batches	01:00pm - 04:00pm	<b>Batch 1: Tissue Culture Lab</b> Media preparation
		10:30am - 12:30pm	Nanoparticle Synthesis and Characterization		<b>Batch 2: Bioinformatics Lab</b> Information Retrieval from bibliography database Sequence retrieval from DNA & Protein Database
29.11.2022	Day 2	09:00 am - 12:00 pm	<b>Batch 1: Bioinformatics Lab</b> Information Retrieval from bibliography database Sequence retrieval from DNA & Protein Database	01:00pm - 04:00pm	<b>Batch 1: Tissue Culture Lab</b> Surface Sterilization Callus induction
			<b>Batch 2: Tissue Culture Lab</b> Media preparation		<b>Batch 2: Bioinformatics Lab</b> Sequence similarity search using BLAST tools Sequence alignment- Pairwise & multiple sequence alignment
		12:00pm - 12:30 pm	Ice- Breaker Session		

30.11.2022	Day 3	09:00 am - 12:00 pm	<b>Batch 1: Bioinformatics Lab</b> Sequence similarity search using BLAST tools Sequence alignment- Pairwise & multiple sequence alignment	01:00pm - 04:00pm	<b>Batch 1: Tissue Culture Lab</b> Micropropagation and Anther Culture
			<b>Batch 2: Tissue Culture Lab</b> Surface Sterilization Callus induction		<b>Batch 2: Bioinformatics Lab</b> Phylogenetic tree construction Gene Prediction
		12:00 pm - 12:30 pm	<b>Bioquiz Round 1</b>		
01.12.2022	Day 4	09:10 am - 12:10pm	<b>Batch 1: Bioinformatics Lab</b> Phylogenetic tree construction Gene Prediction	01:00pm - 04:00pm	<b>Batch 1: Tissue Culture Lab</b> Protoplast Isolation(demo) and Synthetic Seeds
			<b>Batch 2: Tissue Culture Lab</b> Micropropagation and Anther Culture		<b>Batch 2: Bioinformatics Lab</b> Working with PDB- RASMOL, PYMOL, Primer Designing
		12:00 pm - 12:30 pm	<b>Bioquiz Round 2</b>		
02.12.2022	Day 5	09:10 am - 12:10pm	<b>Batch 1: Bioinformatics Lab</b> Working with PDB- RASMOL, PYMOL Primer Designing	01:00 pm- 1:45 PM	Bio hackathon
				01:45 pm - 3:30 pm	A lecture on Hydrogel production
			<b>Batch 2: Tissue Culture Lab</b> Protoplast Isolation(demo) and Synthetic Seeds	03:30 pm - 04:20 pm	Valedictory speech Announcement of winners Photo Session

