



Module PMRF-ISSS043/2025

Introduction to Plant Genetic Engineering

Name of the PMRF student

Anakha R Nair

Required background of the students taught

Undergraduate and postgraduate students interested in the course, with at least a high school level understanding of biology



Details of the content of the module

1. Introduction to Plant Genetic Engineering
2. Plant Genomes & Gene Transfer Vectors
3. Molecular Cloning Tools
4. DNA Delivery Methods in Plants
5. Selectable Markers & Reporter Genes
6. Plant Regeneration & Tissue Culture
7. Gene Expression in Transgenic Plants
8. Engineering Resistance Traits
9. Engineering Nutritional, Industrial & Pharmaceutical Traits
10. Biosafety, Regulations & Public Perception
11. Future Trends in Plant Genetic Engineering

Schedule of the module

Start date: 22/04/2025

End date: 1/05/2025

Schedule: Recorded video lectures will be uploaded everyday at 7 PM (Doubt clearing sessions will be taken on Sundays 7:00 – 9:30 PM)

Number of lectures: 10

Total Hours: 24

Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link: [Link](#)