



Royal Education Society's



College of Computer Science and Information Technology, Latur.

## Biotechnology Department

### Intensive Training Programme on, “Advanced Techniques in Microbiology and Cytology”.

Following enlisted molecular techniques are required for students throughout their research carrier. These techniques are the base to enter any research institute or any agricultural research organization.

Duration of Training Programme: **Start Date: 07 Feb. 2022**

**End Date: 16 Feb. 2022**

Day	Session	Module	Outcome
Day-1	Morning (10 am to 01 pm)	Introduction and Handling of Microbiology Lab Instruments.	Students will be familiar with Lab Instruments.
	Afternoon (02 pm to 05 pm)	Basic Microbial Techniques	
Day-2	Morning (10 am to 01 pm)	Sterilization	Students will be able to prepare media.
	Afternoon (02 pm to 05 pm)	Preparation of Media	
Day-3	Morning (10 am to 01 pm)	Isolation of E.coli.	Students will be learn Isolation of Bacteria.
	Afternoon (02 pm to 05 pm)	Isolation of Aspergillus niger	
Day-4	Morning (10 am to 01 pm)	Screening of Microbes	Students will be isolate microbes by screening method.
	Afternoon (02 pm to 05 pm)	Preservation and maintenance of culture	

Day-5	Morning (10 am to 01 pm)	Isolation of Rhizobium by following methods: 1.Streak Plate Method	Students will be isolation of pure culture methods.
	Afternoon (02 pm to 05 pm)	2. Spread Plate Method By using Serial Dilution Method.	
Day-6	Morning (10 am to 01 pm)	Staining : 1.Simple staining 2.Gram staining 3.Capsule staining 4.Endospore Staining	Students will be learn different types of staining.
	Afternoon (02 pm to 05 pm)	Preparation of double stained permanent slide of Dicot Stem and Monocot Stem.	Students will be Familiar with double staining of Permanent slide of Dicot Stem and Monocot Stem.
Day-7	Morning (10 am to 01 pm)	Biochemical characterization of Rhizobium.	Students will be learn characterization of Rhizobium by Biochemical Test.
	Afternoon (02 pm to 05 pm)	Mitosis	Students will be familiar with preparation of permanent slides of Mitosis.
Day-8	Morning (10 am to 01 pm)	Meiosis	Students will be familiar with preparation of permanent slides of Meiosis.
	Afternoon (02 pm to 05 pm)	<b>Exit Test</b>	-----

Name of the training instructor:

- 1) Ms. Madhuri H. Shendge
- 2) Ms. Pooja.S.Maske

Link for Registration: <https://forms.gle/yjU7Sm498V5bskoV9>

Contact for further details: 8999254114, 8380862889.

**HoD**

**Principal**