

# SENGAMALA THAYAAR EDUCATIONAL TRUST WOMEN'S COLLEGE

(Accredited with NAAC "A" Grade)

PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY

IN COLLABORATION WITH BIOMININ LABORATORIES,  
SUNDARAKKOTTAI, MANNARGUDI.

## **BIO ORGANICS INDUSTRY AND RESEARCH CENTRE**

**Free Summer Training Programme on Bioinstrumentation**

**(20-05-2019 to 25-05-2019)**

PG and Research Department of Microbiology has proposed to organize 5 day Free Summer Training Programme on Bioinstrumentation. The objective of this training is to provide an opportunity to the students of Life science on the use of sophisticated instruments and their applications to acquire the practical skill. This will be an interactive and scientifically vibrant programme. Hence, this will be an exciting time for students and researchers to gain knowledge and establish a scientific community. Certificates will be provided to the candidates on successful completion of the training. The candidates who are pursuing or have completed their B.Tech./B.Sc./M.Tech./M.Sc./M.Phil and Ph.D in Biology/ Biotech/ Medical Biotech or any stream of Life Sciences from a recognized institution are eligible for this programme.

### **Eligibility Criteria:**

UG and PG Life science - Biotech/Microbiology/Food Technology/Biochemistry/ /Biology\* (Both Boys and Girls) can apply online. Opportunity will be provided to limited number of students that will be purely on "First Come, First Serve Basis". There will be a maximum of 10-12 students in each batch.

\*Studying, appearing for examination and passed out students.

### **Training Programme on**

- 1. Microscopic techniques - Isolation and Identification of microorganisms.**
- 2. Compound Purification**
  - **Thin layer Chromatography**
  - **Gas chromatography**
  - **High performance Liquid Chromatography**

3. **Soil Analysis**  
**Analysis of Micronutrients -Atomic Absorption Spectroscopy**  
**Analysis of nutrients – Flame photometer**
4. **Bioreactor - Biofertilizer Production**
5. **Quantitative Analysis – UV – visible spectrophotometer**
6. **Molecular techniques**  
**Agarose gel electrophoresis**  
**PCR**  
**Gel Documentation**  
**SDS PAGE**
7. **Recent Agricultural practices – Biocompost, Lignin degradation**
8. **Bioenterprenur development in vermicompost and Edible Mushroom cultivation**
9. **Semiauto Analyser – Biochemical analysis of Blood**
10. **Muffle Furnace – Analysis of nutrient contents**
11. **Preparation of plant extracts**  
**Pulverizer - Coarse powder preparation of Plants**  
**Soxlet Apparatus - Extract preperation**
12. **Assessment of water and Air quality**
13. **Demo on Plant tissue culture techniques**
14. **Organic farming practices**

**BENEFITS OF THE TRAINING PROGRAM:**

- Research & Development in Agriculture and Pharmaceutical sector
- Doctoral Research
- Bridging Gap in Academic Program
- Boost your confidence

**Important Dates**

<b>10.05.2019</b>	Online application open
<b>15.05.2019</b>	Last date for registration

**Contact person:**

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