

**Yashwantrao Chawhan Arts, Commerce and Science College, Lakhandur,
Dist. – Bhandara.**

Syllabus for Certificate course in Biofertilizers and Biopesticides

Preamble:

Chemical fertilizers are being used in increasing amounts in order to increase output in high yielding varieties of crop plants. However, chemical fertilizers cause pollution of water bodies as well as ground water, besides getting stored in crop plants. Therefore, today's need is for switch over to organic farming. Organic farming is the raising of unpolluted crops through the use of manures, biofertilizers and biopesticides that provide optimum nutrients to crop plants, keeping pests and pathogens under control.

Objectives of the courses:

1. To inculcate importance and advantages of Biofertilizers and Biopesticides over Chemical fertilizers.
2. To give students knowledge about various techniques of Biofertilizers and Biopesticides preparation and processing and its marketing to make them self sustainable after graduation.
3. To teach techniques of preparation Biofertilizers and Biopesticides and its maintenance.
4. To teach students about mass scale production of Biofertilizers and Biopesticides.

Duration: 45 days (including theory and practical).

Eligibility: 10+2 and Above Qualification

Syllabus Scheme:

Certificate course in Biofertilizers and Biopesticides

- Introduction to Biofertilizers
- Types of biofertilizers and their function
- Media preparation and staining techniques
- Advantages of biofertilizers over chemical fertilizers
- Introduction to Biopesticides
- Types of biopesticides and their function
- Mass scale production
- Scale up and formulation
- Preparation of carrier based biofertilizers
- Field application of Biofertilizers and Biopesticides.