

Syllabus: Bio-fertilizer Production Technology

Course Content

- Introduction, History and concept of Bio fertilizers, status scope and importance of Bio fertilizers, Classification of Bio fertilizers. Nitrogen fixation.
- Structure and characteristic features of various bacterial Bio.
- Production technology: Strain selection, sterilization, growth and fermentation, equipment, mass production of carrier based and liquid bio fertilizers. FCO specifications and quality control of bio fertilizers.
- Application technology for seeds, seedlings, tubers, sets etc. Biofertilizers -Storage, shelf life, quality control and marketing. Factors influencing the efficacy of bio fertilizers.

Reference:

1. Biofertilizers and Organic Farming by N. K. Arora
2. Biofertilizer Technology and Applications by Pankaj Kumar Mishra
3. Biofertilizers and Biopesticides: A Novel Approach for Sustainable Agriculture by Anil Prakash
4. Biofertilizer Technology: Improved and New Methods of Production and Application by Pankaj Kumar Mishra

