

MBPC3024 LIVELIHOOD AND DEVELOPMENT MANAGEMENT (3-0-0)

Course Objectives:

1. Understand NGO management principles and explore agri-based, livestock-based, and natural resource-based livelihood options in rural areas.
2. Analyze development programs in sectors such as health, education, WASH, food security, and nutrition, along with relevant policies and institutional mechanisms.
3. Learn about decentralized planning, governance, disaster management, relief, rehabilitation, and development training.
4. Explore principles and techniques of food processing and preservation, including heat-based, low-temperature, non-thermal methods, and use of enzymes and microorganisms.

Module-I :

NGO Management, Agri-based, livestock-based and natural resource-based livelihood options in rural areas. Development Programs in various sectors (Health, Education, WASH, Food Security and Nutrition), policies, institutional mechanisms.

Module-II:

Decentralized planning and governance, Disaster Management, Relief and Rehabilitation and Development Training.

Module- III:

Processing and preservation of foods. Scope of food processing; historical developments; principles of food processing and reservation. Processing and preservation by heat: blanching, pasteurization, sterilization and UHT processing, canning, extrusion cooking, dielectric heating, microwave heating, baking, roasting and frying, etc.

Processing and preservation by low-temperature- refrigeration, freezing, CA, MA, and dehydro- freezing. Processing and preservation by drying, concentration and evaporation-types of dryers and their suitability for different food products; ultra- filtration, reverse osmosis.

Processing and preservation by non-thermal methods, irradiation, high pressure, pulsed electric field, hurdle technology. Use and application of enzymes and microorganisms in processing and preservation of foods; food fermentations, pickling, smoking etc; Food additives: definition, types and functions, permissible limits and safety aspects.

Course Outcomes:

- CO-1: Develop skills in NGO management and effective implementation of livelihood programs in rural areas, contributing to sustainable development.
- CO-2: Understand NGO management principles and explore agri-based, livestock-based, and natural resource-based livelihood options in rural areas.
- CO-3: Understand NGO management principles and explore agri-based, livestock-based, and natural resource-based livelihood options in rural areas.
- CO-4: Understand NGO management principles and explore agri-based, livestock-based, and natural resource-based livelihood options in rural areas.

Books:

- Rural Development and Livelihoods in India, Niranjana Sahoo
- Food Processing and Preservation, S Sivasankar, PH