BLY 415 Bio-resources Management 2 Units

Department of Biological Sciences

Covenant University
1. BLY415
1.1. BLY 415 Bio-resources Management 2 Units

Prerequisite: BLY 122, BLY 214

Concepts in Biological diversity: biological diversity, genetic diversity, specific diversity, species of local cereals, local legume, fruit tree species. Genetic diversity expression: through large number of associations, combinations of genes in individuals of single species, wild relatives of domesticated species, species resistance to (disease, drought, extreme environments etc), utilization of (plant and animal) for varied needs and local germplasms. Conservation and Preservation: importance of plant and animal genetic resources conservation, effects of destruction of natural environment on local plant and animal resources, development of seed, gene and germplasm banks, germplasm collections of local crop species (Case study), selection and breeding of resistant varieties. Alternate management of bioresources: Biotechnologically-based alternatives to live animal experiments; biotechnological protection of forest plantations and economic plants, germplam appropriation and privatization for crop improvement, patents and plant breeders rights, production of improved plants and animals.