

BSP508 APPLIED ECOLOGY LAB

Course Outcomes:

After successful completion of the course, students will be able to:

- CO 1. Enhance the theoretical knowledge of applied ecology with lab experiments and field visits.
- CO 2. Understand plant-animal interactions and prey-predator relationship.
- CO 3. Unravel medicinal properties of plants and significance of conservation
- CO 4. Develop skills of remote sensing.
- CO 5. Identify the freshwater and marine fishery resources.
- CO 6. Estimate growth parameters and determine the probability of death.

- 1. Biodiversity
- 2. Terrestrial biodiversity
- 3. Aquatic biodiversity
- 4. Plant-animal interactions
- 5. Endangered medicinal plants.
- 6. Landscapes analysis through remote sensing data.
- 7. Freshwater fishery resources
- 8. Marine fishery resources
- 9. Estimation of growth parameters
- 10. Life-tables
- 11. Prey-predator relationships



Setting up of a Museum of preserved freshwater fish, plants and mushrooms including some endemic species to the Western Ghats

3rd semester M.Sc. Biosciences students learnt how to carry out and assign systematic nomenclature to biological specimens collected from different aquatic and terrestrial habitats, including species endemic to the Western Ghats of Karnataka, one of the biodiversity hotspots of the world. In all, 17 freshwater fish, 33 plants and 56 mushroom samples from different forest sites of Western Ghats region were identified using various keys and with the help of experts, a systematic classification, labelling and display of the specimens was carried out.



Student working on the labelling



Display cabinets with specimens being identified and classified.