

Sher-e-Bangla Agricultural University
Department of Agronomy
Level-3 Semester-II
Course Title: Weed Science (Theory)
Course code: AGRO 351
Credit hours: 2

Course Contents

Introduction to weed: Definition, characteristics and classification. Harmful and beneficial effects of weed. Brief accounts of weeds of Bangladesh with emphasis on the biology and ecology of major weeds.

Propagation and persistence: Propagation, dispersal and persistence of weeds.

Distribution of weeds: weed distribution in relation to soil, season, topography, crop and crop production practices.

Crop-weed competition: Concept, critical period of crop-weed competition and factors affecting it.

Allelopathic effects of weeds: Concept, allelopathic effects of weeds on crop and vice-versa. Some examples of weeds having allelopathic effects.

Weed management: Concept, principle of weed management, weed eradication, weed prevention and weed control. Cultural and biological methods of weed control with their advantages and disadvantages. Integrated Weed Management (IWM) – concepts and examples of some Integrated Weed Management with advantages and disadvantages.

Herbicidal methods in weed management: Concept and types of herbicide, herbicide formulation, mode of action of herbicide, herbicide selectivity and factors affecting it. Fate of herbicide in soil and plant. Herbicidal weed control in major crops viz., rice, jute, wheat, cotton and sugarcane. Toxic symptoms of herbicide on soil and crop. Effects of herbicide on environment.