

Scientist B – Agronomy

Name of the post	Subject	Syllabus
Scientist B - Agronomy	Agriculture	General Agriculture-All basic courses (Agronomy, Genetics & Plant Breeding, Soil Science & Agricultural Chemistry, Plant Physiology, Plant Pathology, Agricultural Economics & Agricultural Marketing, Statistics, Plant Biotechnology, Plant Biochemistry)
	Agronomy	Principles of Crop Production: Tillage, planting, crop establishment, crop physiology, photosynthesis, respiration, and yield factors. Soil Fertility & Nutrient Management: Soil composition, essential nutrients, deficiency/toxicity, fertilizers (organic/inorganic), biofertilizers, nutrient dynamics, and balanced nutrition. Water Management: Soil-water-plant relationships, irrigation principles, drought management, water use efficiency, and watershed management. Weed Management: Weed identification, crop-weed competition, herbicide application, biological control, and integrated weed management. Crop Ecology & Geography: Agro-ecological zones, crop adaptation, climate effects, and remote sensing.