



# DRAVID OPEN SECONDARY AND HIGHER SECONDARY EDUCATION COUNCIL

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## SYLLABUS AGRONOMY

### CLASS 12 AGRONOMY SYLLABUS

#### Unit 1: Introduction to Agriculture

- Importance of agriculture in Indian economy
- Role of agriculture in national food production
- Scope and branches of agriculture
- Overview of allied enterprises (horticulture, sericulture, apiculture, lac culture, etc.)
- Agricultural heritage in India (Agronomy basics are introduced here)

#### Unit 2: Soil Science and Soil Management

- Soil as a natural body – properties and types
- Soil profile and soil forming factors
- Soil fertility and productivity
- Essential plant nutrients and deficiency symptoms
- Manures, fertilisers and integrated nutrient management (INM)
- Soil sampling and testing (Foundational knowledge for crop production and agronomy)

#### Unit 3: Principles of Crop Production / Agronomy

This is where Agronomy becomes the core focus:

#### ✦ Agronomy / Crop Production Topics

- Definition, scope and importance of agronomy
- Factors affecting crop production: climate, soil, water and nutrients
- Crop sequences and cropping systems
- Tillage and seedbed preparation
- Sowing methods, seed rate, and crop geometry
- Water management and irrigation practices
- Weed management and control methods
- Nutrient management (manures, fertilisers, bio-fertilizers)
- Crop rotation and cropping patterns
- Principles of integrated crop management
- Harvesting, threshing, storage, and value addition

(These are typical agronomy topics included under CBSE Agriculture syllabus.)

#### Unit 4: Crop Production Technology

- Production technology for major crops (cereals, pulses, oilseeds)
- Crop practices for horticultural crops (fruit, vegetable, flower)
- Production guidelines based on seasons and agro-climatic conditions

(Some boards include this; content depth may vary by state)

#### Unit 5: Livestock and Poultry Management

- Rearing of dairy animals and poultry
- Feeding and housing practices
- Health and sanitation
- Importance of livestock in agriculture

(Complementary to agronomy teaching)

#### Unit 6: Agricultural Extension & Rural Development

- Agricultural extension systems
- Rural development programmes
- Farmer training and information dissemination

(Linked to agricultural practices and modern farming systems)

