

(b) Soil Physics. Elementary physics of the soil, soil moisture, heat and air, principles of tillage.

(c) Mechanics. Units of Measurement, velocity, acceleration, force, energy, work, horse-power, friction, draft; practical study of simple machines, such as lever, windlass, pulley, etc.

Text Book : Lyon Fippin & Buckman—Soils, their Properties and Management (Macmillan).

Physics IV—

(a) Surveying and Drainage. Measurement of fields and farm with the chain; calculating areas and drawing plans; use of various instruments for determining levels; preparing plans of drainage, systems of draining; practical work in soil physics.

(b) Electricity and Magnetism. Elementary Electricity and Magnetism; Lightning and lightning protectors; electric light; storage batteries; motors; dynamos; telephone; telegraph.

(c) Ventilation—Principles, systems.
Text Book : King—Physics of Agriculture.

BIOLOGICAL SCIENCES.

Biology.—Introductory Course as in—
Text Book : Abbott, J. F. — Elementary Principles of General Biology (Macmillan), with illustrative practical work.