§ 12.

AGRICULTURE.

Professor.—GEORGE BUCKLAND, ESQ.

Subjects of Lectures:

I.—History of the Art.

(*a*) Agriculture as understood and practised by the Ancients.
(*b*) Agriculture during the Middle Ages.
(*c*) Modern Agriculture.

II. The Science of Agriculture.

(*a*) Soils: their origin, composition, distribution, classification, &c. Relation of Geology, Chemistry and Mechanical Analyses.

(*b*) Plants: their structure, composition, growth &c. Manures: theory, action, and relative value of; modes of preparing, applying, and economizing. Relation of Chemistry and Botany to Agriculture.

(*c*) The Domestic Animals of the Farm: history and description of varieties or breeds; the principles of breeding, with biographical sketches of the more distinguished breeders: diseases and treatment. Relations of Animal Physiology to breeding, feeding, &c.

(*d*) Influence of Climate on agricultural productions, both animal and vegetable. Value of a knowledge of Meteorology and Physical Geography to Farmers.

III.—The Practice of Agriculture.

(*a*) Methods of acquiring a practical knowledge of Farming. Importance of an Agricultural Literature. Connection of Theory and Practice.

(*b*) Principles of Cultivation: Instruments of Tillage illustrated and described.

(*c*) Draining: its value and various modes of execution explained. Subsoil Ploughing. Fallowing. Rotation of Crops, &c.

(*d*) History, cultivation, and economic uses of the various Grains, Roots, &c. raised on the Farm. Weeds, Blight, and their Remedies. Harvesting and securing Crops.

(*e*) The practice of Manuring, and the means of restoring exhausted Land. Management of Pasture. Irrigation, &c.

(*f*) The management of Stock, and the construction and arrangement of Farm Buildings.