

§ 12.

AGRICULTURE.

*Professor.*—GEORGE BUCKLAND, Esq.

Subject 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. Relations of Geology, Chemistry, and Mechanical Arts.
- (b) Plants : their structure, composition, growth, &c. Manures : theory, action, and relative value of ; modes of preparing, applying, and economizing.
- (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 : Implements 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 various Grains, Roots, &c., raised on the Farm. Weeds, Blights, and their remedies. Harvesting and securing Crops.
- (e) The practice of Manuring, and the means of restoring exhausted Land. Management of Pasture. Irrigation, &c.