

§ 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. Connexion 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. 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.
- (f) The Management of Stock, and the construction and arrangement of Farm Buildings.