

§ 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. Relations 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. Relations of Chemistry and Botany to Agriculture.
- (c) The domesticated 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. Popular fallacies.
- (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.