

## PRACTICAL PHYSIOLOGY.

BY

PROFESSOR WILKINS.

This course will embrace Experimental Physiology and Practical Histology.

**Experimental Physiology** will consist of a series of experiments on living animals demonstrating:—

**IRRITABILITY.**—Of Nerves, Muscles, Gland Cells, &c.

**INNERVATION.**—The conduction of Nerve-Energy; the nature of Nerve-Energy.

The following functions of various nerves:—**MOTOR, SECRETORY, TROPHIC, SENSORY**, excitant for **REFLEX** action, **INHIBITORY**.

**CIRCULATION.**—Functions of Vaso-Motor nerves. Movements of the Heart.

**RESPIRATION.**—Innervation of the respiratory movements.—Section of Vagi, &c.

**DIGESTION.**

These experiments will be illustrated by means of apparatus specially prepared for the use in England, Germany and France, and will be of the same practical utility in teaching Physiology that Practical Anatomy and Chemistry are in teaching either Anatomy or Chemistry.

The experiments will be performed by Dr. Wilkins in the presence of his class. The animals to be used for demonstration will be frogs, rabbits, dogs, cats, pigeons, all of which will be rendered insensible before operating.

**Practical Histology** will embrace a description of the various tissues and organs of the body, the practical application of the different methods of hardening and softening, of staining and injecting the tissues for microscopical investigation, &c. Each student will be provided with a microscope and material for preparation, and shewn how to make sections, how to mount and preserve the specimens, &c.

Lectures will be delivered every Saturday during the session from four to six p.m. free to all matriculated students of this University.