

**DEVELOPMENT OF IoT BASED AUTOMATED AQUAPONICS  
SYSTEM FOR WATER QUALITY MONITORING AND CONTROL**

**By**

**RACHANA V V**

**(2021-18-005)**

**THESIS**

**Submitted in partial fulfillment of the requirement for the degree of**

**MASTER OF TECHNOLOGY  
IN  
AGRICULTURAL ENGINEERING**

**(Soil and Water Conservation Engineering)**

**Faculty of Agricultural Engineering and Technology**

**Kerala Agricultural University**



**DEPARTMENT OF SOIL AND WATER CONSERVATION ENGINEERING**

**KELAPPAJI COLLEGE OF AGRICULTURAL ENGINEERING AND**

**FOOD TECHNOLOGY, TAVANUR - 679573**

**KERALA, INDIA**

**2025**