### EFFECTIVENESS OF ALLELOPATHIC PINE LEAVES EXTRACT (Pinus merkusii) ON THE GROWTH, MORTALITY, AND PHYTOTOXICITY OF PURPLE NUTSEDGE (Cyperus rotundus L.) AND BILLYGOAT WEED (Ageratum conyzoides L.)

### **THESIS**

Written by:

IVO YASINTA PUTRI 134210011



# DEPARTMENT OF AGROTECHNOLOGY FACULTY OF AGRICULTURE UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" YOGYAKARTA

2025

### EFFECTIVENESS OF ALLELOPATHIC PINE LEAVES EXTRACT (Pinus merkusii) ON THE GROWTH, MORTALITY, AND PHYTOTOXICITY OF PURPLE NUTSEDGE (Cyperus rotundus L.) AND BILLYGOAT WEED (Ageratum conyzoides L.)

### **THESIS**

The thesis is prepared as one of the requirement to obtain a Bachelor of Agriculture degree from Universitas Pembangunan Nasional "Veteran" Yogyakarta

Written by:

IVO YASINTA PUTRI 134210011



## DEPARTMENT OF AGROTECHNOLOGY FACULTY OF AGRICULTURE UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" YOGYAKARTA

2025