SENARAI TAJUK PROJEK PELAJAR TAHUN AKHIR
DISERTASI BACELOR PRT4959
SEMESTER PERTAMA 2023/2024
JABATAN PENGURUSAN TANAH, FAKULTI PERTANIAN

A

1) Nutrient content in washed rice water from various rice brands and rice types
2) Sugarcane by-product wastes as plant fertilizer
3) Evaporative and nutrient leaching losses from various soil textures
4) No batteries or electricity needed: Testing a nature-controlled fertigation method
5) Effectiveness of Bokashi composting as fertilizer
6) Soil stability against erosion

B

1) Optimizing the growth *of Polyganum minus* using selected biostimulants based products
2) Promoting the growth of upland rice using formulated biochar products

C

1) Immobilization of heavy metals in soils using biochar.
2) Designer biochar to improve soil fertility.
3) Competitive sorption of P between soil particles and biochar.

D

1) Bioprospecting of beneficial microbes to improve soil fertility.
2) Isolation and characterization of beneficial microbes from sewage.
3) Preservation of effective microbes using freezing method.

E

1) Soil fertility index (SFI) study from selected vegetable farm for sustainable farming system.
2) Effectiveness of cation exchange capacity (CEC) through shaking method under acid soil conditions
3) Soil aluminum toxicity alleviation through calcium silicate application from selected acidic soil.
4) Kieserite fertilizer study on leaching and residual effect on sandy clay soil from Brownfield areas.
5) Soil-water quality index study under selected farming system.

F

1) Distribution patterns of potentially toxic elements in surface soils at an urban area
2) Assessment of heavy metals pollution and human risk in urban soils around manufacturing facilities

3) Soil quality assessment under different forest/plantation types.

G

1) Evaluation of organic liquid fertilizers on leafy vegetables
2) Evaluation of beneficial microorganisms on crop performance
3) Evaluation of growth medium for coconut seedlings
4) Evaluation of liquid organic fertilizers in soilless system
5) Impact of cropping system in organic farm on soil biological properties
6) Impact of soil management in organic farm on soil biological properties

H

1) Reducing soil compaction using selected soil amendment.
2) Development of soil media from POME sludge.
3) Utilization of POME sludge as a soil amendment to improve soil properties.

I

1) Development of a Sustainable Potting Soil Mix using different Agro-industrial-residues and their influence on fruit seedling growth
2) Development of a Potting Soil Mix using Palm Oil Mill Effluent (POME) and their influence on fruit seedling growth

J

1) Application of rock phosphate fertilizers to increase P-level in soils
2) Application of bio stimulant to increase uptake of nutrients in plants
3) Application of bio-K from agriculture waste to improve K nutrients in plants

K

1) Isolation and characterization of plant growth-promoting rhizobacteria (PGPR) and their effect on crop

L

1) Evaluating potassium fertilizer regime on the growth and yield of Napier grass
2) Nitrogen use efficiency of Napier grass under irrigated system
3) Yield productivity of leafy green vegetables from biodegradeable degreaser applied as soil drenching and foliar application

M

1) Effect of Potassium fertilization on physicochemical properties of soil derived from Marine Alluvium and Riverine Alluvium planted with rise.
2) Effect of using wood vinager as a stimulant for seed germination

N

1) Application of fortified biochar pellets for improving sandy soil.
2) Development of an Arduino-based smart sprinkler irrigation system.
3) Soil carbon balance and nutrient dynamics of oil palm agroforestry
4) Soil microbial diversity and abundance of oil palm agroforestry

O

1) Effects of different amendments on solubility of different source of Mg fertilizers.
2) Selection of the best ratios/formulations of different fertilizers with amendments and impacts on nutrient release.
3) Effects of different amendments with red gypsum on physicochemical properties of red gypsum.
4) Effects of different amendments on solubility of different source of Mg fertilizers.
5) Selection of the best ratios/formulations of different fertilizers with amendments and impacts on nutrient release.
6) Effects of different amendments with red gypsum on physicochemical properties of red gypsum.
7) Localization of nutrients in different depth of soil.
8) Effects of soil conditioner in enhancing performance and yield of paddy.
9) Effects of different treatments on paddy.
10) Nutrients release determination using different approaches.

P

1) Soil Morphological and Chemical Properties in Homegardens on Ultisols
2) Soil Morphological and Chemical Properties in Homegardens on Oxisols
3) Influence Of Agricultural Activity on Soil Morphological and Physicochemical Properties on Ultisols
4) Influence Of Agricultural Activity on Soil Morphological and Physicochemical Properties on Oxisols
5) Influence Of Agricultural Activity on Soil Morphological and Physicochemical Properties on Alluvial soil