

**BRAWIJAYA UNIVERSITY**

**FACULTY OF AGRICULTURE**

**SOIL DEPARTMENT**

**WORK PROGRAM**

**SOIL CHEMISTRY LABORATORY 2007 - 2011 - (2013) - (2014)**

Chairman of the Soil Chemistry Laboratory

### **INTRODUCTION**

**Laboratory of Soil Chemistry**, is institution serves *as a kitchen* that prepares the menu in carrying out the process of *learning - teaching* in the Soil Department, Faculty of Agriculture, Brawijaya University. The menu is as follows: (1) *soft ware* (curriculum and supporting devices) , (2) *hard ware* (the building : class room, laboratory, greenhouse, Technical Supporting Units (TSU), experimental gardens) , and (3) *the man ware* (staffs, students, lectures) .

Along the way, Soil Chemistry Laboratory has *undertaken* the task since 1994, when changes of the conventional education system to semester credit system, even much earlier. Academic menu accessed not only by existing courses under the Soil Department, but also by other departments such as Agronomy, Plant Protection, and the Social Economics of Agriculture for agricultural staple subject . Soil Chemistry Laboratory is also accessed by the Postgraduate program. Resource - sharing is done well with other faculty at Brawijaya University (BU) even outside the university.

The main tasks performed Soil Chemistry Laboratory is *preparing curriculum* for Soil Science Studies Program (SSSP) of under and post graduate programs and other programs under Faculty of Agriculture, implementing *classroom practicum, research*

*of students/lecturers, development of Technical Supporting Unit (TSU), and service to the public community.*

Soil Chemistry Laboratory functions as a supporting program development in the Soil Department, Faculty of Agriculture, felt also by the contribution of the laboratory to support the cooperation program in the country and/or abroad.

### **Delivered the following year Work Programme 2007 - 2011:**

#### **I. SOFTWARE (SOFT WARE)**

##### **A. PROGRAM HIGHLIGHTS:**

- Services Practicum Class → ( a, b , c )
- Final Practice Services → ( a, b , c )
- Services Research Lecturer → ( a, b , c )
- Routine Analysis Services (Public Community Services) → ( a, b , c )

##### **B. PROGRAM SUPPORT:**

- Procurement Training Analysis Method → ( a, b )
- Development of Composting Techniques → ( a, b )
- Development of Rapid Test Methods → ( a, b )

##### **C. ADDITIONAL PROGRAM:**

- Conduct Formal Cooperation → ( a, b , c )
- Conducting Non - Formal Cooperation → ( a, b , c )

##### **D. PROGRAM DEVELOPMENT:**

- Cross - Check Program Implementation → ( a )
- Development of Soil Analysis Methods → ( a )
- Development of Fertilizer Analysis Methods → ( a )
- Development of Water Analysis Methods → ( a )
- Development of plant tissues Analysis Methods → ( a )

## II . HARDWARE (HARD WARE)

- Procurement / Up - dating Laboratory Equipment → ( a )
- Repair / Construction of House - Glass → ( a, b )
- Development / Expansion Space Dryer / Storage Warehouse / Material → ( b , c )
- Development / Expansion Space Lab / Lecture → ( c )

## III . THE MAN WARE

- Advanced Studies Lecturer Staff / Employee → ( a, b , c )
- Upgrading / Training Staff Lecturer / Employee → ( a, b , c )
- Appointment Analyst / Laboratory New → ( a, b )
- Appointment of Expert Mechanical / Electrical → ( b , c )

### **Description:**

- a . Short-term : 2008
- b . Medium term : 2009-2010
- c . Long-term : 2011 - next →

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