

February 23, 1989

DECS Order
No. 13, s. 1989

MINIMUM STANDARDS FOR MASTER IN AGRICULTURAL
TECHNOLOGY EDUCATION PROGRAM

To : Bureau Directors
Regional Directors
Schools Superintendents
Presidents, State Colleges and Universities
Heads of Private Schools, Colleges and Universities

1. Inclosed is the set of guidelines and minimum standards for the operation of the Master in Agricultural Technology Education Program which has been recommended by the Technical Panel for Agricultural Education (TPAE), Bureau of Higher Education. A series of workshops and consultative meetings with experts in the various disciplines were conducted whereby comments and recommendations were solicited. Likewise, different institutions offering graduate programs in agriculture and allied sciences were consulted to further improve these standards.
2. The said guidelines and minimum standards approved by this Office shall take effect beginning school year 1989-1990.
3. All educational institutions which shall offer such program are required to take necessary steps to comply with the standards.
4. It is desired that the inclosed guidelines and minimum standards be given the widest publicity possible.

(SGD.) LOURDES R. QUISUMBING
Secretary

Incl.: As stated

Reference: N o n e

Allotment: 1-2-3-4--(M.O.1-87)

To be indicated in the Perpetual Index
under the following Subjects:

Course of Study, COLLEGIATE
CURRICULUM

TECHNICAL EDUCATION
VOCATIONAL EDUCATION

GUIDING PRINCIPLES AND MINIMUM STANDARDS FOR MASTER IN
AGRICULTURAL TECHNOLOGY EDUCATION PROGRAM

I. GUIDELINES

A. Mission Orientation

To develop competent and effective teachers for programs aimed at producing agricultural entrepreneurs.

B. Programs

1. Instruction

Only institutions which fully satisfy the minimum requirements for the Diploma in Agricultural Technology Education-Master in Agricultural Technology Education (DATE-MATE) program are allowed to offer the program.

The DATE-MATE program should provide courses oriented towards practical and managerial skills development in agriculture, effective teaching and values development.

2. Research and Extension

To enrich the DATE-MATE program, the institution must have a viable applied research and extension programs in agriculture and allied fields.

3. Agricultural Production

The institution must have profitable production projects to showcase research and extension.

C. Resources

1. Faculty

There should be at least a minimum number of qualified teachers to handle graduate courses, applied research and production projects in agriculture.

2. Students

Students must meet the admission requirements set by the institutions offering the DATE-MATE program.

2. Research and Extension

Applied research and effective extension should be established to provide dynamism and relevance to the instructional program. This will ensure that the faculty members contribute to knowledge in their disciplines as well as gain community/field experience for effective teaching of their subjects.

Research and extension funds and facilities should be adequately provided. At least 30 percent of its budget for the program should be allocated for research and extension. Of this amount, at most 60 percent should be allotted for salaries and other personal services, and 40 percent for maintenance and operating expenses. Fund sources for research and extension may be external and/or internal.

3. Agricultural Production

Institutions should provide mechanisms to operate production projects in efficient business manner.

An initial outlay for income generating project (crops, livestock, aquaculture, postharvest/processing) must be provided.

B. Resources

1. Faculty

- a. To teach graduate courses in a discipline, a faculty member must have at least a master's degree or its equivalent in that discipline obtained from a recognized institution. For the teaching methods courses, the faculty member should have at least a doctoral degree in education.
- b. To advise in project development in the major discipline, a faculty member must have a master's degree, or its equivalent in that discipline obtained from a recognized institution. Only faculty members with experience in project management or with advanced degree can advise in project management.
- c. The following minimum number of full-time graduate faculty are required to teach the education and social science courses and major graduate courses supportive of the major discipline:

- b. Minimum laboratory equipment and facilities for graduate instruction, research, extension and production.

In addition to the equipment required in the PSA program, equipment for Farm Mechanization, Postharvest Technology, Computer, instructional materials development laboratory/equipment must be acquired (see attached list of equipment).

- c. Library requirements

- i) Library seating capacity of 20 percent of the total number of students and academic staff
- ii) Minimum of three relevant book titles (less than five years old) per subject.
- iii) Minimum of three quality journals/bulletin titles (current) per field of specialization equitably representing the various subdisciplines (e.g. crop production, animal production, postharvest and processing, education and extension and agribusiness/farm management).

- d. Student Services

The following student services must be adequately provided:

- i) health services
- ii) food services
- iii) recreational and sports facilities
- iv) guidance and counselling services
- v) housing for graduate students
- vi) financial assistance

C. Organization

The DATE-MATE is a graduate program and as such shall be administered by the graduate school or an equivalent office unit.

The organization must have a built-in system for planning, implementation and evaluation of the graduate program along with those of undergraduate instruction, research, extension and production.

DESCRIPTION OF COURSES FOR THE DATE-MATE PROGRAM

A. TECHNOLOGY COURSES

AGRICULTURE TECHNOLOGY AND FARMING SYSTEMS - 3 units, 5 hours a week. (2 hrs. lecture, 3 hrs. laboratory). Survey of community based agriculture systems (resource assessment); components and features of major agriculture production technology.

INTEGRATED TECHNOLOGY STUDIES IN AGRICULTURE - 3 units, 5 hours a week (2 hrs. lecture, 3 hrs. laboratory). Interrelationship and practical application of agricultural technology in selected existing farming systems models.

FARM MECHANIZATION AND POSTHARVEST TECHNOLOGY - 3 units, 7 hours a week (1 hr. lecture, 6 hrs. laboratory). Farm power, machineries and structures; handling, processing and storage of agricultural products and by-products.

AGRICULTURE PRODUCTION TECHNOLOGY I & II (A or B) - 3 units, 7 hours lecture (1 hr. lecture, 6 hrs. laboratory).

A. Crop-based Production Technology

Cultural and Management practices in Crop Production

B. Livestock-based Production Technology

Cultural and Management practices in Crop Production

PROJECT DEVELOPMENT AND MANAGEMENT I - 3 units, 5 hours a week. (2 hours lecture, 3 hours laboratory). Agricultural project organization, development and management; feasibility study preparation and problems and issues of entrepreneurship.

COMPUTER SOFTWARE UTILIZATION IN AGRICULTURE - 1 unit, 3 hours a week (lab.). Use of appropriate computer packages in agriculture education and production.

PROJECT DEVELOPMENT AND MANAGEMENT II - 6 units, 1 semester. Implementation, monitoring and evaluation of the project.