

Republika ng Pilipinas  
(Republic of the Philippines)  
MINISTERI NG EDUKASYON, KULTURA AT ESPORTS  
(MINISTRY OF EDUCATION, CULTURE AND SPORTS)  
Manila

February 20, 1984

MEMO MEMORANDUM  
No. 35, s. 1984

SEMINAR-WORKSHOP ON "COMPUTER AND SOCIETY"

To: Presidents, State Colleges and Universities  
Heads of Private Schools, Colleges and Universities  
Chairmen, Deans, Directors of Mathematics Department,  
Arts and Sciences and/or Computer Science Centers

1. In response to the need expressed by administrators during the National Assembly on Computer Education and Training (November 24-25, 1983), the Ateneo-FAP Graduate Center for Mathematics in collaboration with the Bureau of Higher Education, DECS, the Mathematics Teachers Association of the Philippines, and the Philippine Science and Mathematics Council will conduct a three-week seminar-workshop on April 23-May 12, 1984, 8:00 A.M. - 5:00 P.M., at the Ateneo de Manila University, Loyola Heights, Quezon City.

2. The seminar-workshop entitled "Trainers' Program in Computer and Society" will have the following objectives:

- a. To orient the participants on the basic functions performed by the various components of a general purpose computer.
- b. To acquire sufficient knowledge on computers: its history, element, classification, capabilities, as well as limitations.
- c. To understand the concept of a computer-based information, data communication and computer security and audit.
- d. To explain the basic principles of computer programming languages, explicate the basic steps in program preparation and write and run simple programs using the BASIC language.
- e. To orient the participants to Basic Programming with applications in Mathematics.
- f. To understand the sociological effects of the computer industry.







3. To enable the participants to gain masteral/doctoral units for the seminar-workshop, the content will be given under two separate titles:
  - a. No. 238 - Computer Oriented Mathematics
  - b. No. 239 - Seminar in Mathematics/Computer and Society (or any other course that may be applicable to students' program)
4. For the benefit of the participants who have satisfactorily finished this seminar-workshop, all deans of graduate schools are requested to consider the granting of graduate credits for elective or cognate subjects at the masteral/doctoral level with 6 units.
5. Participants will be limited to teachers who are teaching at least College Algebra/Trigonometry or other related subjects.
6. Participants whose schools already possess or are ready to purchase computer systems such as micro-computers and are planning to offer any type of computer course by SY 1984-85 will be given first priority. For this purpose, the applicant must be endorsed by the school president/college dean. The letter of endorsement should contain the plan of the school regarding the participant.
7. The registration and tuition fees will be given free. However, expenses for transportation, board and lodging, and fees for instructional materials will be shouldered by each participant and/or his/her school.
8. Inquiries and application forms are available at the Bureau of Higher Education, BHEC, Arroceros, Manila, c/o Dr. Nilo L. Rosas (Tel. No. 47-53-07) or Graduate Center for Mathematics, Ateneo de Manila University, Loyola Heights, Quezon City, c/o Sister Iluminada C. Coronel, S.M.A. (Tel. No. 99-37-21 loc. 162). Deadline for the submission of names of participants is on March 15, 1984.
9. Inclosed is a copy of the course syllabi.
10. Early dissemination of the contents of this Memorandum is desired.

(Sgd.) JUAN C. LAYA  
Minister

Incl.:

As stated

Reference:

BHEC Memorandum No. 238, s. 1983

Attachment: 3-4 (D.C. 1-75)

To be indicated in the Expenditure Index under the following subjects:

OFFICIALS

SEMINAR

SOCIETY or ASSOCIATIONS

TEACHERS

VOCATIONAL EDUCATION

WORKSHOP









COURSE SYLLABI ON COMPUTER AND SOCIETY

Pa 235 - Computer Oriented Mathematics

This course will be on Basic Programming with applications in Mathematics, and if time and the progress of the participants permit, some applications in business. (This course will be given by one instructor.)

Pa 240 - Seminar in Mathematics

This seminar includes a brief history of computing.

- I. Introduction to computer systems
  - a. Definition of terms
  - b. Elements of a computer system
  - c. Classification of computers
  - d. Capabilities and limitations of a computer
  - e. History of computing machines
- II. Introduction to number systems and internal data representation
- III. File organization and processing
- IV. Developing a computer-based information system
- V. Introduction to database systems
  - a. Definition of terms
  - b. Overview of different database models
  - c. Data administration
- VI. Introduction to data communication
  - a. Definition of terms
  - b. Different data communication lines used
  - c. Distributed data processing
- VII. Introduction to computer security and audit
  - a. Definition of terms
  - b. Components of computer security
  - c. Different control techniques
  - d. Different computer system audit methodologies
- VIII. Steps in program planning and development and programming problems
- IX. Computer Applications
- X. Social implications of computer on individual organization and society





