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Suggested IT Training and Educational Programs

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Pre-University Education

□ Project

Introduce up-to-date computer & IT related technology in conventional high school subjects

● Objectives

Help students to comprehend difficult subjects, e.g., Mathematics, via non-conventional means (shake hand with the IT technology)

● Possible Means & Requirements

(a) Introduce 3-5 hours per week IT skill development programs for students

(b) Modify both the teaching methodology and textbooks presentations

(c) Provide schools with qualified teachers

Pre-University Education (Contd)

□ Project

Introduce IT courses in schools

● Objectives

Introduce students as early as possible to the IT era (get acquainted with the IT technology)

● Possible Means & Requirements

(a) Introduce IT related courses in middle and high schools

(b) Provide Schools with needed qualified teachers and laboratory facilities

Pre-University Education (Contd)

Project

Introduce special IT-related programs for gifted young students

Objectives

Prepare a number of gifted students (Males and Females) to become leaders in IT (love IT technology)

Possible Means & Requirements

(a) Optional test for interested students

(b) Optional yearly Kingdom-wide “IT Innovative projects” Competition

University-Level Education

(I) Undergraduate Level

❑ Project

Introduce IT tools into existing university level programs

● Objectives

Help students to further strengthen their ability to comprehend difficult subjects using available IT tools (re-affirm to the IT technology)

● Possible Means & Requirements

(a) Enforce use of IT in university teaching

(b) Enforce use of IT in student class work, e.g., projects & presentations

(c) Train existing faculty and hire qualified ones

University-level Education

(I) Undergraduate Level (Contd)

□ Project

Introduce IT related courses in existing university-level programs

● Objectives

Help students to further naturalize their association with the technology (learn IT technology)

● Possible Means & Requirements

(a) Introduce IT related courses in different university-level courses

(b) Provide universities with needed qualified faculty, networking and laboratory facilities

Higher-level Education

(I) Undergraduate Level (Contd)

❑ Project

**Introduce New BS Degree Programs in
Different fields of IT**

● Objectives

**Graduate BS degree holders with IT specialty
(believe in IT technology)**

● Possible Means & Requirements

(a) Enhance existing BS degree IT related programs

**(b) Introduce new BS degree programs in different
areas of IT**

**(c) Provide universities with needed qualified
faculty, networking and laboratory facilities**

University-Level Education

(II) Graduate Level

□ Project

Introduce New IT University Diploma Programs

● Objectives

Upgrade IT knowledge of BS degree holders (not too late to know the IT technology)

● Possible Means & Requirements

(a) Establish one-year IT diploma programs in different universities

(b) Establish coordinated IT certificates with sound international firms

University Level Education

(II) Graduate Level (Contd)

□ Project

Introduce New IT related Master Programs

● Objectives

provide breadth as well as depth knowledge to graduates with appropriate BS degrees (become an expert in the IT technology)

● Possible Means & Requirements

(a) Enhance existing MS degree IT related programs

(b) Introduce new MS degree programs in different areas of IT in different universities

(c) Provide universities with needed qualified faculty, networking and laboratory facilities

Community-level Education

□ Project

Introduce post-secondary school IT Diploma Programs

● Objectives

Graduate IT technical staff with sound hands-on-experience (become technically sound in the IT technology)

● Possible Means & Requirements

(a) Enhance existing 2-year IT related diploma programs

(b) Introduce new 2-year IT related diploma programs in technical/community colleges

Technical/Community-level Education (Contd)

□ Project

Introduce post-secondary school IT Associate Degree Programs

● Objectives

Graduate IT technical staff with sound hands-on-experience (become technically sound in the IT technology)

● Possible Means & Requirements

(a) Enhance existing 2-year IT related associate degree programs

(b) Introduce new 2-year IT related associate degree programs in technical/community colleges

Specialized IT Colleges

□ Project

Extend the role of existing CCSE colleges to encompass IT

● Objectives

Allow existing CCSE Colleges to resume the role of offering previously suggested university programs and degrees in IT

● Possible Means & Requirements

(a) Add IT department(s) to the current structure of CCSE colleges in different universities

(b) Expand the scope, mission, and responsibility of existing CCSE Colleges

Specialized IT Colleges (Contd)

□ Project

Establish New CCSIT Colleges

● Objectives

Allow universities to offer suggested programs and degrees in IT through qualified educational unit

● Possible Means & Requirements

(a) Establish New CCSIT Colleges in different universities

(b) Provide the necessary infrastructure, qualified faculty, and facilities

High Tech Community Centers

□ Project

Establish well rounded IT Community Centers

● Objectives

Raise the awareness of the public of the IT technology and the role it can play in improving their life style

● Possible Means & Requirements

(a) Establish IT socially oriented centers in different communities and/or cities

(b) Coordinated effort is needed in conjunction with local municipalities and private sector

High School Community Centers (Contd)

□ Project

Establish IT Youth Development Centers

● Objectives

Offer introductory courses and/or technical skill development workshops to youth (males and females) at affordable fee

● Possible Means & Requirements

(a) Establish IT centers equipped with appropriate facilities to provide short term courses and/or workshops for youth in different communities

(b) Coordinated effort is needed in conjunction with local municipalities and private sector

Programs for Government Employees

❑ Project

Establish IT Training Centers in Different Government Units

● Objectives

Train Government employees to the use of IT technology in their profession thus improving the services provided to the public

● Possible Means & Requirements

(a) Conduct regular training session to Government employees to improve their skills in using the IT technology in providing public services

Training Programs for Government Employees (Contd)

□ Project

Use Training Services Provided by IT Specialized Private/Public Sector Centers

● Objectives

Train (at a fee) Government employees to the use of IT technology in their profession thus improving the services provided to the public

● Possible Means & Requirements

(a) Have the Chamber of commerce in each province to contribute to the establishment of such centers

Government Supported IT Incubators

□ Project

Establish Government Supported IT Incubators

● Objectives

Encourage the IT industry to flourish by providing regulated loans as initial IT industrial base, e.g., start-up fund or land, for small and medium IT projects

● Possible Means & Requirements

(a) provide reasonably prepared centers for ventures in small and medium IT industry

University Based IT R&D

□ Project

Establish University IT Endowed Chair Positions

■ Objectives

Enhance the role played by universities in advancing
research in IT

■ Possible Means & Requirements

Establish a minimum number of IT Endowed Chair
positions in each university

University Based R&D (Contd)

□ Project

Establish IT University Parks

■ Objectives

Enhance the university role in advancing IT R&D

■ Possible Means & Requirements

Establish IT Park in each of the major university in collaboration with highly reputable IT firms