



AUN/SEED-Net **jica**

Annual Report 2002

ASEAN University Network / Southeast Asia
Engineering Education Development Network

Message from Resident Representative JICA Thailand Office

On behalf of the JICA Thailand office, it is my great pleasure to issue the Annual Report of AUN/SEED-Net Project 2002. First of all, I would like to convey my sincere gratitude for your support in making a full-scale start of this project possible. Since the inauguration ceremony in April 2001, we have had many discussions on how it would be best to implement the project. Thanks to the effort of all the persons concerned in this preparatory period, this project was finally and successfully established last March.

As the cooperative framework paper shows, AUN/SEED-Net was launched to strengthen education and research capacity of engineering through the active exchange of resources among 10 countries, 19 Member Institutions, and the collaborative relationship with the Japanese Supporting University Consortium. This project is a very new attempt for JICA in terms of contributing to regional cooperation among ASEAN countries as well as bilateral cooperation. In that sense, AUN/SEED-Net project will be seen as a milestone in cooperation as it is an equal partnership between Thailand and Japan

In the preparatory period, the project established “the field-wise supporting program”. We would like to accelerate academic exchange through supporting Master’s Degree scholarships, Joint Research Programs, and dispatching Japanese professors based on 9 core-engineering fields. I believe that such supporting programs will contribute not only to enhancing the regional cooperation among the Member Institutions but also to strengthening the collaborative relationship between the Member

Institutions and Japanese supporting universities.

Full-scale operation of the project needs us to consider what kind of network should be established, what we would realize through the network, and how we would make the best of the network in the project. I recognize the hints of those questions are in “ASEAN ownership”. I hope each Member Institution keeps the motivation to make a relationship in each core field and to consider the system to ensure the network is sustainable. In this sense, JICA would like ongoing discussions with all relating institutions on formulating a sustainable and autonomous framework among ASEAN countries and Japan through this project.

Lastly, I would like to give my sincere appreciation to all persons concerned on this project and I hope they will work with each other for the success of the project.



Shinya Nakai
Resident Representative
JICA Thailand Office



Message from AUN/SEED-Net Executive Director



After a lengthy process, the International Agreement between the Thai and Japanese Government was finally concluded by exchange of verbal notes between the two Governments in January 2003, thanks to the great efforts of the Ministry for University Affairs, the Ministry of Foreign Affairs of Thailand, the ASEAN University Network Secretariat, and the cooperation of the Japanese authorities. This significant milestone was subsequently followed by the signing of the Record of Discussions between Japan International Cooperation Agency and the Ministry for University Affairs of Thailand on Japanese Technical Cooperation Project for AUN/SEED-Net, enabling a full-scale operation of the Project for a period of 5 years starting from March, 2003.

Last year the Secretariat received 34 applications for the Master's Degree Support Program, with only 17 scholarships awarded to students from 6 Member Institutions. This small turn-out prompted the Steering Committee to re-adjust the Project Strategy at the 3rd Steering Committee Meeting in June 2002. Each Host Institution in Malaysia, Indonesia, the Philippines, and Thailand would now be assigned one hosting field in which the Institution has the most strength.

To attract more students to apply for scholarships, promotional activities by 8 Host Institutions were supported by AUN/SEED-Net. The outcome of this proactive approach has been quite successful, resulting in 128 applications for Master's Degree scholarships in the following year.

Two important workshops were organized in the past year. The Workshop for Formulating Field-wise Support System was held in Tokyo in December. The Workshop firmly recommended that the Doctoral Degree Sandwich Program with the collaboration of Japanese Supporting Universities be established. The Host Institutions are also encouraged to act as Regional Hubs in the fields which they host. It is a commitment of the Host Institutions not only to upgrade the designated fields to a high level of standard, but also to assist and collaborate with other Member Institutions in various academic activities. The Japanese Supporting University Consortium (JSUC) will play an important role in strengthening the Regional Hub through Collaborative Research involving AUN/SEED-Net Master's and Doctoral students, and through other academic activities such as Field-wise Seminars, Model Lectures, etc. As a result of the Workshop, the Doctoral Degree Sandwich Program has been launched, which may be regarded as another important milestone of the Project.

A Short Course on "Developing IT-enhanced Engineering Courseware" was co-organized by Chulalongkorn University in February, 2003. The Workshop was designed to train the trainers on the use of common tools and techniques for authoring or enhancing courseware. On the last day of the Workshop, a special lecture and a demonstration on e-Multimedia Courseware Development were presented live from the National

University of Singapore (NUS) and Nanyang Technological University (NTU) through video-conferencing via Internet II, marking the first of such event in the region. With the successful implementation of Internet II, I envisage much wider use of this mode of communication among Member Institutions in such academic activities as live interactive examinations of doctoral students with external examiners from another country, or live video-conferencing of important conferences.

After two years since the inauguration of AUN/SEED-Net, I can see a friendly network evolving. When we wanted to experiment on video-conferencing via Internet II, our friends in NUS and NTU fully cooperated with our colleagues at Chulalongkorn University to make it work. In the past IT seminars and workshops, more than 15 resource persons from Member Institutions willingly and voluntarily shared their expertise and experience with the participants. The Deans or representatives of Member Institutions and Japanese professors of JSUC always lend full support for the Project.

On behalf of Member Institutions, I would like to take this opportunity to express our sincere gratitude to the continued support of JICA, ASEAN Foundation, JSUC, ASEAN Secretariat, AUN, Chulalongkorn University, NTU, NUS, as well as concerning authorities of the Governments of Japan and ASEAN countries.

A handwritten signature in black ink, appearing to read "P. Lukkunaprasit". The signature is written in a cursive, somewhat stylized script.

Prof. Dr. Panitan Lukkunaprasit
Executive Director
AUN/SEED-Net Secretariat

I. ESTABLISHMENT OF COOPERATIVE FRAMEWORK

Field-wise Cooperation System

The Graduate Degree Support Program is one of the pillars of the AUN/SEED-Net Project. In the Japanese fiscal year 2002, the AUN/SEED-Net Secretariat received thirty-four applications from Member Institutions. In order to conduct full-scale activities for the years to come and enhance Master's Degree Support Program, AUN/SEED-Net had a series of discussions in the 3rd Steering Committee Meeting held in Bangkok on June 20-21, 2002. The meeting reached a consensus to modify the program by relaxing qualification requirements of the eligible applicants, and to strengthen the host institutions through concentrating one particular field, which is considered the strongest field of each institution. Eight basic fields of engineering and respective host institutions are: Civil Engineering (CU), Chemical Engineering (DLSU), Environmental Engineering (UP), Manufacturing Engineering (UM), Materials Engineering (USM), Electrical & Electronics Engineering (CU/KMITL), Mechanical/Aeronautics Engineering (ITB (INA)), and Geological Engineering (UGM). As for NTU and NUS, they can continue hosting any field.

Under the new arrangement, eligibility of applicants was expanded to include qualified graduates who wish to become academic staff or researchers in the future. In this regard, in addition to the faculty members of the member institutions, the top 10% of excellent senior students and graduates are considered as eligible candidates. The arrangement also allows each host institution to look after one priority field of engineering in order to concentrate project resources.

Table 2: Dispatch of JICA/JSUC Consultation Teams

No.	Field	Leaders of the Team	Visited Universities	Period
1.	Electrical & Electronics	Prof. Wakabayashi (Tokai)	KMITL, CU	Sep. 2002
2.	Mechanical & Aeronautical	Prof. Tsutsumi (Toyohashi)	ITB(INA), HCMUT, HUT	Sep. 2002
3.	Chemical Environment	Prof. Kajiuchi (TIT)	DLSU, UP, UY, Y TU, ITC	Oct. 2002
4.	Geological	Prof. Uchino (Kyushu)	UGM, UY, Y TU	Oct. 2002
5.	Manufacturing Materials	Prof. Mitsui (Keio)	UM, USM	Nov. 2002
6.	Civil	Prof. Ishiyama (Hokkaido)	CU, NUOL, HCMUT	Nov. 2002

In line with the arrangement, the Japanese Supporting Universities set up a new supporting system based on an idea that one Japanese university looks after one field of engineering; as a result, the selected field can be strongly supported from the selected Japanese university through concentrated network. The new supporting scheme is expected not only to strengthen the host institutions but also to promote a regional cooperation among the Member Institutions. A summary of the new arrangement is shown in Table 1.

Workshop for Formulating Field-wise Cooperation System

The Workshop for Formulating Field-wise Cooperation System has been successfully implemented from December 9 to 13, 2002, in Tokyo, Japan. The Workshop firmly recommended that the Doctoral Degree Sandwich Program with the collaboration of Japanese Supporting Universities (JSUs) be established. It encouraged each Host Institution to act as a Regional Hub of the field in which it has strength, and to work closely with other Member Institutions so that all could benefit from the scheme. Two field-wise seminars were planned annually for each host, once at the Host Institution and the other at a Member Institution. In addition, a preliminary but successful discussion was conducted between Member Institutions and JSUs on collaborative research as well as plans for other academic activities.

Table 1: Summary of the Field-wise Cooperation System

Field	Host University	Country	Japanese Coordinating University	Japanese Supporting University (JSU)
ChE Env	DLSU UP	Philippines	TIT TIT	Kyoto, Toyohashi Hokkaido, Kyushu, Keio
Manu Mat	UM USM	Malaysia	Keio Tokyo	Toyohashi, Tokai TIT*, Keio
CE EEE EEE	CU CU KMITL	Thailand	Hokkaido Tokyo Tokai	Tokyo Shibayra, Kyoto, Tokai, TIT Shibayra, Kyoto, Tokyo, TIT
ME / AE Geo	ITB (INA) UGM	Indonesia	Toyohashi Kyushu	Keio, Tokai Kyoto, Hokkaido

* TIT: Tokyo Institute of Technology

The workshop also agreed to carry out activities with appropriate 'Quality Assurance Scheme', recognized as essential for achieving high standard of education.

The Japanese Supporting University Consortium (JSUC) also reaffirmed their important role of strengthening the Regional Hubs through Collaborative Research involving AUN/SEED-Net Master's and Doctoral students, and through other academic activities such as Field-wise Seminars, Model Lectures, etc.

Promotional Activity Support Program

It was agreed in the 3rd Steering Committee Meeting on June 21, 2002 that AUN/SEED-Net support the host institutions to conduct promotional activities in order to attract more students for the Master's Degree Program.

In this regard, the faculty members of the host institutions, who participated in the promotional trip, gave seminars at non-host institutions to disseminate information on university prospectus

including faculty facilities, research activities, academic programs, composition of students, international cooperation, etc. Between November 2002 and January 2003, eight teams organized by the host universities were dispatched.

II. PROJECT ACTIVITIES

Graduate Study Program for Master's Degrees for Year 2003

In the fiscal year 2002, 17 applicants were granted the AUN/SEED-Net Scholarships. Electrical and Electronics Engineering was the most popular field, followed by Mechanical Engineering and Environmental Engineering. The list of Graduate Study for Master's degree Support Program for Year 2002 is shown in Appendix 1.

In December 2002, the AUN/SEED-Net Secretariat called for submission of applications for Master's Degree

Scholarships for Year 2003. As a result, 128 applications were submitted of which 50 applicants were from Vietnam, the rest were from Indonesia with 32, Laos with 18, Cambodia with 12, Myanmar with 8, the Philippines with 5, and Thailand with 3 applicants respectively. The most preferred Hosting Institutions were Universiti Sains Malaysia (Materials Engineering), Chulalongkorn University (Electrical & Electronics Engineering), and De La Salle University (Chemical Engineering) with 18, 17 and 16 applications respectively (considering the first priority chosen by the applicants). The details are shown in Tables 3-4.

As of May 31, 2003, fifty-three applications have been approved.

Table 4: Popularity ranking of hosting institutions based on applicants' first priority

Rank	Institutions	Number of first priority
1	USM	18
2	CU (EEE)	17
3	DLSU	16
4	ITB	14
5	CU (CE)	13
6	UP	11
7	NTU	10
7	NUS	10
8	UGM	7
8	UM	7
9	KMITL	5
	Total	128

Table 3 : Application Distribution with the First Priority

Host Institution / Sending Institution	Indonesia		Malaysia		Philippines		Thailand			Singapore		Total
	ITB	UGM	UM	USM	DLSU	UP	CU (CE)	CU (EEE)	KMITL	NTU	NUS	
ITC		3		2	2	3		2				12
ITB				2			3				3	12
UGM		1	3		1		5	2	1	5	1	20
NUOL			2			4	4	2	1	3	2	18
YU	1				2				1		1	5
YTU	1				1			1				3
DLSU								1				1
UP				4								4
KMITL										1	1	2
BUU											1	1
HUT	4		1	2	4	3		5		1	1	21*
HCMUT	9	2		4	6	1	1	4	2			29
TOTAL	14	7	7	18	16	11	13	17	5	10	10	128

Thesis Research Support Program

The Thesis Research Support Program has been designed to enhance the thesis research conducted by AUN/SEED-Net Master's students. As of May 2003, 15 proposals have been submitted to the AUN/SEED-Net for support of thesis research. A full list of applications is shown in Appendix 2.

Field-wise Seminars

In order to enhance interaction among the member institutions by each field of engineering, each host university needs to take a lead to promote such collaboration. With the assistance and involvement of JSUC, Field-wise Seminars will be organized once or twice a year (for JFY2002 only once) for each field by Host Institutions. The Field-wise Seminar aims to achieve two main objectives. The first one is to review and design annual implementation plan for various input of AUN/SEED-Net, especially collaborative research topics. The second one is to enhance exchange of research experiences and works / findings among the Member Institutions through presentations of research output (including thesis research by AUN/SEED-Net students), and discussions of recent research trends. These activities will contribute to strengthening the collaborative network among the Member Institutions and Japanese Field Coordinating/Supporting Universities. Seven field-wise seminars were implemented between January and March 2003. Appendix 3 shows the list of the seminar details.

Collaborative Research Support Program

The Collaborative Research Support Program is designed to strengthen research and educational capability in the host field in collaboration with Japanese Supporting Universities. Since the Graduate Study Program is a main pillar of AUN/SEED-Net, it is necessary to strengthen research and educational capability in the host fields so as to enable the host institutions to maintain international standard of education. It is expected that significant academic input from Japanese Supporting Universities will contribute to enhancing these supervision of students of graduate programs at the host institutions.

In line with the core objectives of the program, topics of research projects should be related to the host field aiming at contributing to enhancing these research of the Graduate Degree Support Program.

The program was announced in November 2002 for fiscal year 2002. Twenty-nine proposals were submitted, of which 8 projects were approved. Appendix 4 tabulates the list of the projects, granted for year 2002.

IT Special Project

In January 2003, AUN/SEED-Net received 13 proposals under the IT Pilot Project and 8 proposals were approved. A list of the approved proposals is shown in Appendix 5.

As agreed upon in the first IT Seminar in Singapore, the second IT workshop entitled 'A Short Course on Developing IT-Enhanced Engineering Courseware' was held at the Faculty of Engineering, Chulalongkorn University in Thailand on February 10-13, 2003.

The workshop aimed to train the trainers on the use of basic tools and techniques to create or convert conventional lectures to IT-enhanced courseware materials. Sixty participants, including resource persons and representatives from the Member Institutions, and JSUC attended the workshop.

As part of the IT Special Project, the IT Regular Project was implemented to encourage each Member Institution to create one (or more) IT courseware. In addition, AUN/SEED-Net provided one set of computer, multi-media device, and relevant software to each Member Institution (except Brunei and Singaporean institutions) for use in developing IT courseware in the IT Regular Projects.

As of February 12, 2003, AUN/SEED-Net received totally 20 pre-proposals on the IT Regular Project. Appendix 6 lists the IT Regular Project pre-proposals.

Video Conference via Internet II

With the support from Chulalongkorn University and the Ministry of University Affairs of Thailand (later changed to Commission on Higher Education, Ministry of Education), special lectures on "E-Multimedia Courseware Development" were presented live from Nanyang Technological University and the National University of Singapore through Video Conference via Internet II, at the 2nd IT Workshop on 13 February 2003. This marks the first of such event in Asean. This mode of communication was intended to be utilized later by Chulalongkorn University in examining a doctoral thesis, with the live interaction of an external examiner in Singapore.

The First IT Committee Meeting

Following the Workshop, the First IT Committee Meeting was held in the afternoon of February 13, 2003. In addition to the discussion on strategies in implementing IT-enhanced Courseware Development Project, the possibility of sharing resources like IMPARO, developed by the National University of Singapore, and iNTUtion, developed by Nanyang Technological University, was also discussed.

JICA/JSUC Supporting Programs for Year 2002

The JICA/JSUC Supporting Programs supports the Member Institutions to enhance regional cooperation among the Member Institutions. The programs comprise the Short-term Study Program in Japan, Japanese Professor Dispatch Program and the Doctoral Degree Support Program in Japan. Under the Short-term Study Program in Japan, JICA invited 59 participants to the Workshop for Formulating the Field-wise Cooperation System mentioned earlier.

The purpose of Ph.D. Program in Japan is to provide an opportunity for research and teaching staff members of the AUN/SEED-Net member institutions to acquire a doctoral degree at a university in Japan. The Japanese Professors Dispatch Program is established to dispatch Japanese professors to the member institutions in order to support AUN/SEED-Net activities such as field-wise seminars, collaborative research and other technical activities in order to strengthen research and education capabilities of the Member Institutions. The outcomes of programs in 2001/2002 are summarized in Table 5.

New Program Launching of Doctoral Degree Support Program within the Member Institutions

AUN/SEED-Net has announced the Doctoral Degree Support Program within the Member Institutions (or Doctoral Degree Sandwich Program) for Japanese fiscal year 2003 since March 20, 2003.

Under the program, a number of scholarships will be offered to outstanding master's degree graduates of Graduates Degree Support Program or outstanding young teaching staff or research assistants, or competent young graduates of the Member Institutions of AUN/SEED-Net to pursue study for a doctoral degree at a Host Institution (in another country except Singapore). Successful candidates will be given an opportunity to study at a Host Institution for 3 years, during which he may spend up to one year at a Japanese university carrying out research through the Sandwich Program under co-supervision of a counterpart professor of JSUC.

The target number is nine scholarships in year 2003. The program has attracted so far 22 applications from 8 Sending Institutions for doctoral study at 7 Host Institutions in the engineering fields of Civil (CU), Electrical & Electronics (CU & KMITL), Materials (USM), Environmental (UP), Chemical (DLSU), Geological (UGM), and Mechanical / Aero-nautical (ITB).

Special Lecture by Executive Director

On the occasion of attending the Fourth Steering Committee Meeting in Vientiane, Lao PDR, Prof. Dr. Panitan Lukkunaprasit, on November 21, 2002, delivered a special lecture titled 'Quality Research' at the Faculty of Engineering and Architecture, National University of Laos. This was part of the contribution from Chulalongkorn University to other Member Institutions in academic collaboration.

Table 5: JICA/JSUC Supporting Programs

No.	Program	Year 2001	Year 2002	Remarks
1	Japanese Professor Dispatch Program	6 professors	43 professors	Consultation Mission Field-wise Seminar Technical Advice
2	Short-term Study Program in Japan	-	59 participants	Workshop in Japan
3	Doctoral Degree Support Program in Japan	-	3 scholarships	ITB, UP, UM

III. INTERNATIONAL AGREEMENT AND

RECORD OF DISCUSSIONS

Record of Discussions between JICA and Ministry of University Affairs

In January 2003, the International Agreement was concluded by exchange of verbal notes between the two governments. Following the conclusions of the agreement and based on the Cooperative Framework signed on April 23, 2001, JICA and Thai authorities concerned had a series of discussions on the framework of the Project. As a result of the discussions, the Record of Discussions between Japan International Cooperation Agency and Ministry of University Affairs of Thailand on Japanese Technical Cooperation Project for AUN/SEED-Net was signed on March 13, 2003 in Bangkok, Thailand.

The signing of the Record of Discussions has marked a new stage of development of the project, enabling its full-scale operation for a period of 5 years starting from the day the document was signed.

IV. ASEAN FOUNDATION SUPPORTED PROGRAMS

Since the establishment of AUN/SEED-Net Projected in April 2001, various kinds of cooperative activities have been launched for strengthening research and education in engineering of the Member Institutions. Among these, Graduate Study Program for Master's Degree, Research Project Support Program, and Support Program for Academic Seminar have been supported by the ASEAN Foundation (AF).

The AUN/SEED-Net Project receives a substantial financial contribution from the ASEAN-Japan Solidarity Fund, which is composed of Japan's contribution to the ASEAN Foundation. The duration of support is thirty-two months starting December 2001 to July 2004. The first disbursement of US\$551,012.00 was remitted to the AUN/SEED-Net Project on December 14, 2001. On the contract base, the fund was allocated to support twenty-two proposals, of which eleven proposals are allocated for the Graduate Study Program for Master's Degree, six proposals for Research Project Support Program, and five proposals for Support Program for Academic Seminars.

On September 16, 2002, Prof. Dr. Panitan Lukkunaprasit, Executive Director of AUN/SEED-Net paid a visit to the ASEAN Foundation in Jakarta, Indonesia, and had a discussion with Prof. Dr. Ruben C. Umaly, Executive Director, ASEAN Foundation, and Mr. Koichi Funayama, Chief Coordination Officer to the ASEAN Foundation, Embassy of Japan. Contractual matters and funding for the next phase were discussed.

Later on, a progress report was submitted to the ASEAN Foundation in January 2003. The report listed the

progress of each program in detail. A summary of ASEAN Foundation Supported Activities is elaborated in Appendix 7.

On the same trip on September 16, 2002, Prof. Dr. Panitan also visited ASEAN Secretariat, and held a discussion with Dr. Azmi Mat Akhir, Director, Bureau of Functional Cooperation. Exchange of general views was made regarding sustainability of the Project.

V. VISITS OF JAPANESE PROFESSORS AND OFFICIALS

Dr. Tsutsumi, Kazuo, Professor, Toyohashi University of Technology, Sep 22-24, 2002; Dec 2-33, 2002; Jan 19-29; Feb 10-11, 2003

Dr. Kuramoto, Hiroshi, Associate Professor, Toyohashi University of Technology, Dec 23, 2002

Mr. Sato, Mikiharu, Managing Director, Social Development Department JICA, Jan 15, 2003

Dr. Nishino, Fumio, Professor, Graduate School of Political Science, Feb 10, 2003

Mr. Inui, Eiji, Director of First Social Division, Social Development Cooperation Department, JICA, Feb 28, & May 14, 2003

Dr. Araki, Kiyomichi, Professor, Tokyo Institute of Technology, Mar 14, 2003

Mr. Mitsuoka, Hideyuki, Head, International Affairs Section, Research Cooperation Division, Tokyo Institute of Technology, Mar 18, 2003

Mr. Hida, Toshio, Resident Representative, JICA Malaysia Office, Mar 19, 2003

Mr. Suemori, Eiichi, Managing Director, Social Development Department, JICA, Apr 18, 2003

Appendix 1: List of Graduate Students for Master's Degree Support Program for the Year 2002

(As of May 2002)

No.	Name	Sending University	Field of Study	Host University	Commencement Date	Scholarship Status
1	Mr. Kimtho Po	ITC	Telecommunication System	CU	June-02	Confirmed
2	Mr. Muhammad Nur Rizal Masduq	UGM	Computer Engineering	CU	November-02	Confirmed
3	Mr. Wawan Budianta	UGM	Environmental Engineering	UP	June-02	Confirmed
4	Mr. Urip Agus Salim	UGM	Mechanical Engineering	UM	(*)	---
5	Mr. Eka Firmansyah	UGM	Electronics & Electrical Engineering	NTU	January-03	Confirmed
6	Mr. Thong Sopha	NUL	Structural / Civil Engineering	NTU	January-03	Confirmed
7	Mr. Vansay Meksarik	NUL	Power Engineering	USM	July-02	Confirmed
8	Mr. Thong Vanh Vilayphonh	NUL	Mechanical Engineering	NUS	July-02	Confirmed
9	Ms. Nwe Nwe Aung	UY	Environmental Engineering	CU	(**)	---
10	Mr. Tristan Roland Punzalan	DLSU	Electrical & Computer Engineering	CU	June-02	Confirmed
11	Mr. Angelo Sumayao	DLSU	Electronics & Electrical Engineering	NTU	June-04	Confirmed
12	Ms. Marie Therese Quieta	DLSU	Electrical & Computer Engineering	NUS	June-04	Confirmed
13	Mr. Marlon Musngi	DLSU	Electrical Engineering	NTU	January-03	Confirmed
14	Ms. Medi Nazar	DLSU	Computer Engineering	NUS	October-02	Confirmed
15	Ms. Jazmin Chong	DLSU	Mechanical and Production Engineering	NTU	January-03	Confirmed
16	Mr. Huy Tran Duc	HUT	Metallurgical Engineering	CU	June-02	Confirmed
17	Mr. Xuan Thang Cao	HUT	Chemical Engineering	CU	June-02	Confirmed

Note: (*) The student has deferred the scholarship to next year
 (**) The student has not arrived at CU

Appendix 2: Thesis Research Support Program
(As of May 2002)

No.	Host Institution	Applicants	Sending Institution	Thesis Title	Duration	Amount (US\$)	Remarks
1	KMITL	Mr. Tha Bounthanh	NUOL	Region-based color and texture description for CBIR system	June 02-31 Oct 03	\$4,000	Awarded in 2002
2	KMITL	Mrs.Nouanchanh Panyanouvong	NUOL	Uniformly Distributed RC Filter using Transistor-Only Domain	Nov 01-Oct 03	\$3,673	Awarded in 2002
3	KMITL	Mr. Khamphong Khongsomboon	NUOL	Low Voltage, High Speed Digital CMOS and BiCMOS Circuit Design	Mar 02-Oct 03	\$3,254	Awarded in 2002
4	KMITL	Mr. Khampheth Bounnady	NUOL	HMM for On-line Laos Handwritten Recognition	June 02-31 Oct 03	\$5,000	Awarded in 2002
5	KMITL	Mr. Somphone Kanthavong	NUOL	QoS Management System in the Internet	Nov 01-Oct 03	\$5,000	Awarded in 2002
6	KMITL	Mr. Kham Khanthavivone	NUOL	Tone Recognition Model for Lao Language Using Pitch Quantization and Hidden Markov Modeling Techniques	Nov 01-Oct 03	\$3,491	Awarded in 2002
7	CU	Mr. Soe Thein	UY	Application of Geometric Technology for Geological Map	Mar 03-Feb 04	\$4,995	
8	CU	Ms. Nguyen Thi Thu Ha	HUT	Separation of Sodium Chloride (NaCl) from Acanthus ebracteatus Extract by Nanofiltration Membranes	Feb 03-Nov 03	\$5,000	
9	CU	Mr. Muhammad Nur Rizal	UGM	Route Optimization in Mobile IP	Apr 03-Mar 04	\$5,000	
10	CU	Mr. Kimtho PO	ITC	Mobile IT Handoff using a Packet Buffering Policy	Apr 03-Mar 04	\$5,000	
11	CU	Mr. Xuan Thang CAO	HUT	Extractive Fermentation for Alkaline Protease Production Using Aqueous Two-Phase System	Mar 03-Apr 04	\$4,717	
12	UP	Mr. Wawan Budianta	UGM	Groundwater Pollution with Emphasis on Domestic Wastewater in Yogyakarta City Indonesia	Apr 03-Feb 04	\$5,860	
13	USM	Mr. Vansay Meksarik	NUOL	Development of Variable Dc-Linked Inverter of Solar Photovoltaic for Power Systems	Apr 03-Apr 04	\$2,270.53	
14	CU	Mr. Huy Tran Duc	HUT	Characterization of Fluidity and Its Relationships with Structure of Aluminum-Silicon Alloy	2003-2004	\$4,820	
15	CU	Mr. Wahyu Wilopo	UGM	A Feasibility Study of Artificial Recharge in Lad Krabang Industrial Estate Bangkok Province Thailand	2003-2004	\$5,000	

Appendix 3: Field-wise Seminars Held in Japanese Fiscal Year 2002

(as of May 2003)

No	Country	Institution	Seminar Title	Seminar Period	JSUC
1	Thailand	CU	Quantum Structures for Nanoelectronics	Jan 7-8, 2003	Tokyo
2	Malaysia	USM	Seminar on Qualitative and Quantitative X-Ray Diffraction (XRD) Analysis and Its Application	Feb 17-19, 2003	Toyohashi
3	Philippines	DLSU & UP	Regional Network in Chemical and Environmental Engineering Education and Research	Mar 4-5, 2003	TIT
4	Indonesia	ITB (INA)	Impact Mechanics and Vibration Based Failure Detection	Mar 10-11, 2003	Toyohashi, Keio
5	Thailand	KMITL	Recent Topics on Information Technologies	Mar 13-14, 2003	Tokai, TIT
6	Malaysia	UM	Collaborative Research in Manufacturing Engineering	Mar 13-14, 2003	Keio, Tokai
7	Indonesia	UGM	Development of Networks for Research and Education in Mining and Geological Engineering	Mar 17-19, 2003	Kyushu

Appendix 4: List of Collaborative Research Support Program

(as of May 2003)

No.	Country	Institution	Research Title	Contact Person	JSUC	Japanese Professor
1	Malaysia	USM	Synthesis and Characterization of Vanadium	Assoc. Prof. Azizan Aziz	Toyohashi	Prof. Tsutsumi
2	Malaysia	USM	Influence of Intermetallic Phase Development on the Properties of Lead Free Solder	Mr. Ahmad Badri Ismail / Assoc. Prof. Dr. Luay Bakir Hussain	Tokai	Prof. Ariga
3	Philippines	DLSU	Catalytic Processes for the Production of Syngas using Natural gas	Luis F. Razon/ Susan M. Gallardo/ Leonilla C. Abella/ Carlito M. Salazar	TIT	
4	Philippines	UP	Anaerobic Digestion of Organic Fraction of Municipal Wastes Using High-Rate Slurry and Solid State Fermentation Reactors	Dr. Analiza P. Rollon	TIT	
5	Philippines	UP	Recovery and Purification of Polyunsaturated Fatty Acids from Fish Oil	Dr. Analiza P. Rollon / Prof. Marilou P. Dalida	TIT	
6	Indonesia	ITB	Development of Vibration Based Failure Detection technique Using ODS	Dr. Ir. Zainal Abidin / Prof. Dr. Ir. Komang Bagiasna / Prof. Dr. Ir. Djoko Suharto	TIT	Prof. Houjoh
7	Indonesia	ITB	High Velocity Impact on Multilayered Composites	Dr. Ir. Ichsan S. Putra	TUT	Prof. Homma
8	Thailand	CU	Mobile / Wireless Networking	Assoc. Prof. Dr. Watit Benjapolakul	Tokyo	Prof. Morikawa

Appendix 5: IT Enhanced Courseware Development Pilot Projects
(as of May 2003)

No	Country	Institution	Topic / Course	Duration	Software	Awarded Budget (Yen)
1	Indonesia	UGM	Forces, Equilibrium of Particle, Newton's Law / Basic Physics I	3 hours lecture	Web-based / MS Windows	150,000
2	Indonesia	UGM	The Geology of Geothermal System/ Geothermal Geotechnology	4 hours lecture	Web-based / MS Windows	150,000
3	Malaysia	USM	Rectifier / Power Electronic	2 hours lecture	Authorware Window 98	175,727
	Malaysia	USM	Inverter / Power Electronic	2 hours lecture	Authorware Window 98	165,780
4	Malaysia	USM	Local Area Network Technology and Routing Techniques / Data and Computer Communication	5 hours lecture	Windows 9x, 2k and Visual C++, Linux	149,202
5	Indonesia	ITB (INA)	Engineering Practice of Stress Measurement / Experimental Mechanics	4 hours lecture	MS Powerpoint and video presentation	125,000
6	Thailand	CU	Optical Fiber Structure, Signal Distortion in Optical Fiber, Waveguide Mode Analysis / Introduction to Optical Fiber	3-4 hours lecture	Producer, Flash, Powerpoint	150,000
7	Thailand	CU	Multimedia Communication Model, Image Coding Standards, Video Coding Standard / Multimedia Communication	8 hours lecture	Windows, Powerpoint, Producer, Media, Macromedia Flash	150,000
8	Philippines	UP	Shear and Bending Moment Diagram, Centroids and First Moment of Length, Area and Volume / Statics of Rigid Bodies	5 hours lecture	Macromedia Flash, Win 32 Application	148,663

Appendix 6: List of IT Regular Project Proposals

(as of May 2003)

No.	Country	Institution	Project Title	Duration	Estimated Project Development Period	Budget Requested	
1	Cambodia	ITC	Power Electronics	-	Apr 03 - Feb 04	\$	3360
2	Cambodia	ITC	Structural Timber (Design of Wood Structure)	36 hours course	Jul 03 - Dec 03	\$	2295
3	Indonesia	ITB	Control Engineering	16 lectures	Apr 03 – Mar 04	IDR	37,250
4	Indonesia	UGM	Geothermal Geotechnology (The Geology of Geothermal Systems)	16 lectures	Feb 03 – Nov 03	JPY	500,000
5	Indonesia	UGM	Basic Physics I	15 hours lecture	Apr 03 – Jan 04	JPY	500,000
6	Laos	NUL	Circuit Theory	6 months lecture	Apr 03 – Sep 03	\$	3,460
7	Malaysia	USM	Introduction to Data and Computer Communication	16 hours lecture	Jan 02 – Jan 03	RM	14,500
8	Malaysia	UM	Computer Programming (first year Engineering course)	15 hours lecture	Apr 03 – Mar 04		
9	Myanmar	UY	Fundamentals of Digital Electronics, Computing and Image Processing; Intro to Quantum Mechanics in Electronics Materials Technology	15-20 Lectures (@45 mins)	2003 - 2004	\$	3,000
10	Myanmar	YTU	(1) Fundamentals of DSP Techniques (2) Optical Fiber Communications (3) Microprocessor Architecture and Interfacing	36 lectures (@50 mins)	Apr 03 – Feb 04	\$	4,982
11	Myanmar	YTU	Multimedia Network, Artificial Intelligence, Image Processing	2-3 weeks	Totally 6 months		
12	Philippines	DLS	Web-Based Course on Basic Electrical Circuit Analysis One	5 months	Feb 03 – Jul 03	JPY	500,000
13	Philippines	UP	Interactive Tutorial Software on Mechanics of Rigid and Deformable Bodies	36 hrs of lectures * 3 parts	Jan 03 – Dec 03	\$	4,070
14	Thailand	CU	Multimedia Communication: An E-learning Based Approach	15 hours lecture	Apr 03 – Nov 03	JPY	500,000
15	Thailand	CU	Multimedia for Construction Engineering	15 hours lecture	Apr 03 – Sep 03	JPY	500,000
16	Thailand	KMI	Digital Circuit and Logic Designs	15 hours lecture	Apr 03 – Mar 04	JPY	500,000
17	Thailand	KMI	Principle of Computer Programming with Pascal	15 hours lecture	Apr 03 – Mar 04	JPY	500,000
18	Thailand	BUU	Microprocessors (Principles and Application)	-	Apr 03 – Feb 04	JPY	488,500
19	Vietnam	HUT	Enhanced Courseware Prototype for Creating Lessons	15 weeks (3 credits)	Feb 03 – Oct 03	\$	3,850
20	Vietnam	HCM	Fundamentals of Programming Languages	30 lectures (@45 mins)	Apr 03 – Sep 03	\$	3,500

Appendix 7: A Summary of ASEAN Foundation Supported Activities

(as of May 2003)

List of Graduate Students for Master's Degree Support Program Under Inception Projects						
No.	Name	Sending University	Field of Study	Host University	Commencement Date	Contract Status
1	Tha Bounthanh	NUOL	Computer Engineering	KMITL	Nov. 01	Yes
2	Khampheth Bounnady	NUOL	Computer Engineering	KMITL	Nov. 01	Yes
3	Kham Khanthavivone	NUOL	Telecommunication Engineering	KMITL	Nov. 01	Yes
4	Khamphong Khongsomboun	NUOL	Telecommunication Engineering	KMITL	Nov. 01	Yes
5	Somphone Kanthavong	NUOL	Information Technology	KMITL	Nov. 01	Yes
6	Nouanchanh Panyanouvong	NUOL	Information Technology	KMITL	Nov. 01	Yes
7	Zay Yar Min San	YTU	Information Technology	KMITL	Jun. 02	Yes
8	Win Thet Muang	YTU	Information Technology	KMITL	N/A	Yes
9	Wahyu Wilopo	UGM	Water Resources	CU	Jun. 02	Yes
10	Endah Dewi Nurahmani	UGM	Petroleum Engineering	CU	Jun. 02	Yes
11	Nguyen Thi Thu Ha	HUT	Biotechnology and Food Engineering	CU	Jun. 02	Yes
12	Soe Thein	UY	Survey Engineering	CU	Jun. 02	Yes
13	Aung Cho Nyunt	UY	Electronic Engineering	CU	N/A	Yes
List of Research Project Support Program under Inception Projects						
No	University	Field	Project Title	Duration	Budget (US\$)	Status
1	ITB (BRU)	CE	To Develop Lightweight Foam Concrete Structural Elements for the Construction of Low Energy Houses in the Kampong (Water Village) of Brunei Darussalam	Jan. – Oct. 02	35,000	Fully remitted
2	UGM	CE	Estimating Future Needs of Transportation Infrastructure and Services in the Southeast Asian Region	Jun. 02 – Mar. 03	35,000	Fully remitted
3	USM	EEI	To Study the Effect of Rain, TEC, Magnetic Storm and Weather on Satellite Link	Jan. 02 – Dec. 02	30,000	23,095 remitted
4	NTU	EEI	FPGA Implementation of MELP Encoder/Decoder	Jan. – Dec. 02	7,000	Fully remitted
5	CU	ME	Effects of Ethanol Contents on Diesohol Compression Ignition Engine Combustion and Emissions	Jul. 02 – Dec. 03	46,078	32,649 remitted
6	HUT	EEI	Fabrication and Characterization of High-Tc Superconducting Thin Films	Jan. 02 – Dec. 03	30,000	19,476 remitted
List of Academic Seminar Project Support Program under Inception Projects						
No.	Host University	Title of Seminar		Period	Status	
1	KMITL, Thailand	Telecommunications and Information Technology Challenges Facing for Global competition on the 21 st Century		To be considered	Waiting for the confirmation from KMITL regarding the time to organize the seminar	
2	ITB (INA), Indonesia	The experimental & Theoretical Mechanics 2002		March 18-19, 02	Contract has already been signed and budget was fully remitted on Jan 16, 2002	
3	To be considered	Effects of Long-Distance Earthquake-full-scale Building		To be Considered	Under consideration	
4	Tentatively proposed			Tentatively proposed		
5	Tentatively proposed			Tentatively proposed		

Appendix 8: List of Acronyms/Abbreviations

Member Institutions under AUN/SEED-Net

BUU	Burapha University
CU	Chulalongkorn University
DLSU	De La Salle University
HCMUT	Ho Chi Minh City University of Technology
HUT	Hanoi University of Technology
ITB(BRU)	Institut Teknologi Brunei
ITB(IND)	Institut Teknologi Bandung
ITC	Institute of Technology of Cambodia
KMITL	King Mongkut's Institute of Technology Ladkrabang
NTU	Nanyang Technological University
NUOL	National University of Laos
NUS	National University of Singapore
UBD	Universiti Brunei Darussalam
UGM	Gadjah Mada University
UM	University of Malaya
UP	University of the Philippines
USM	Universiti Sains Malaysia
UY	University of Yangon
YTU	Yangon Technological University

Engineering Fields

AE	Aeronautical Engineering
CE	Civil Engineering
ChE	Chemical Engineering
EEE	Electrical & Electronics Engineering
Env	Environmental Engineering
Geo	Geological Engineering
Manu	Manufacturing Engineering
Mat	Materials Engineering
ME	Mechanical Engineering

Institutions and Other Terms

AF	ASEAN Foundation
ASEAN	Association of South East Asian Nations
AUN	ASEAN University Network
AUN/SEED-Net	ASEAN University Network / Southeast Asia Engineering Education Development Network
FCU	Field Coordinating University
JFY	Japanese Fiscal Year (April – March)
JICA	Japan International Cooperation Agency
JPY	Japanese Yen
JSUC	Japanese Supporting University Consortium
JSUs	Japanese Supporting Universities