**KYOTO UNIVERSITY – UTC JOINT SUMMER**

**TRAINING COURSE OF**

**ROAD INFRASTRUCTURE**

**ASSET MANAGEMENT**

**Date: September 21-23, 2015**

**Venue: Hanoi Campus, UTC, Vietnam**

**Organized by:**

* Graduate School of Management, Kyoto University, Japan
* University of Transport and Communications, Vietnam

**In collaboration with:**

* Center for Research in Business Administration, Graduate School of Management, Kyoto University
* Pasco Corporation, Japan

**Supported by:**

* Council for Science, Technology and Innovation (CSTI), Cross-Ministerial Strategic Innovation Promotion Program (SIP)
* Japan Institute of Country-ology and Engineering (JICE)

**ABOUT THE COURSE**

The maintenance/repair/renewal of infrastructures plays an inevitable role on stabilization of national life, not only in developed countries but also in developing countries. However, due to limited budgets allocated for this, socio-economic concepts in addition to engineering concepts must be taken into consideration.

Since 2005 Kyoto University has been conducting an annual course aimed at providing fundamental concept and/or knowledge associated with road infrastructure asset management in conjunction with asset management software called the “Kyoto Model”.

2015 is the tenth anniversary milestone of collaboration between Kyoto University and UTC. This year Kyoto University will enhance the course by featuring bridge management. Kyoto University and UTC have also been working on academic research of advanced Vietnam Bridge Management System (VBMS) model for Vietnam supported by Council for Science, Technology and Innovation (CSTI), Cross-Ministerial Strategic Innovation Promotion Program (SIP), which will be introduced during the course. KU and UTC will also organize a special seminar on pavement to invite experts and practitioners on September 23.

**TARGETED PARTICIPANTS**

* Students of Kyoto University and UTC
* Students from any other universities in Vietnam
* Researchers and engineers and government officials who are interested in road infrastructure asset management.

**CREDITS AND CERTIFICATE**

Participants who have completed the course will obtain the certificate of course completion issued both from Kyoto University and UTC. Upon his/her request, the students from Kyoto University and UTC can be accredited officially by their affiliation, respectively.

**VENUE**

The summer course is held at Hanoi Campus of University of Transport and Communications, Hanoi, Vietnam.

**CONTENTS OF THE COURSE**

Contents of the course are summarized as follows:

* Outline of Asset Management & ISO of Asset Management
* Structure, Authority, and Responsibilities
* Risk Management
* Monitoring Management
* Life Cycle Analysis
* Performance Assessment of road infrastructures, bridge, concrete structures, slope and embankment
* Case studies

**LANGUAGE**

The official language of the course is English.

**LECTURERS OF THE COURSE**

From Japan

* Prof. Kiyoshi Kobayashi - Kyoto University
* Prof. Hirotaka Kawano - Kyoto University
* Prof. Hiroyasu Ohtsu - Kyoto University
* Prof. Keiichi Tamura - Kyoto University
* Assoc. Prof. Kiyoyuki Kaito - Osaka University
* Assoc. Prof. Kazuya Aoki - Kyoto University
* Mr. Kan Abekura - Kyoto University

From Vietnam

* Prof. Nguyễn Viết Trung - UTC
* Dr. To Giang Lam - UTC
* M. Sc. Nguyễn Đình Thạo - UTC
* Mr. Phạm Quang Sơn - PASCO Vietnam
* Mr. Đỗ Hồng Phong - PASCO Vietnam

**GENERAL INFORMATION**

**Time and Place**

The program will be held at the Hanoi Campus, University of Transport and Communications, Hanoi on September 21-23, 2015.

**Registration**

Application should be made by completing the registration form. Reservation can be made by e-mail. Confirmation of reservation will be made upon receipt of the completed application forms. For further information, please contact:

**Local Secretariat**

Ms. Ngo Thuy Linh

International Cooperation Department

University of Transport and Communications (UTC)

No. 3 Cau Giay str., Lang Thuong Ward, Dong Da Dist., Hanoi, Vietnam

E-mail: linh\_dn83@yahoo.com

Phone: +84-4-37664078

Fax: +84-4-37664078

**General Secretariat**

Prof. Keiichi Tamura (Kyoto University)

Graduate School of Management, Kyoto University

E-mail: ke-tamura@gsm.kyoto-u.ac.jp

Phone: +81-75-753-3548

Fax: +81-75-753-3529

Mr. Hiroshi Koyashiki (Kyoto University)

Phone: +81-75-383 3410

Fax: +81-75-383 3410

E-mail: h.koyashiki@econ.kyoto-u.ac.jp

**TIME TABLE AND CONTENTS**

| DAY | MORNING | AFTERNOON |
| --- | --- | --- |
| No. | Time | Lecture Topic and Speaker | No. | Time | Lecture Topic and Speaker |
| **Day 1****(21/9/2015)** | 9:00-9:05 : **Opening Remarks from Kyoto University** (Kiyoshi Kobayashi, Kyoto University)9:05-9:10 : **Opening Remarks from UTC** (UTC's Representative) | 4 | 14:00-14:50 | **Initial Implementation of PDCA Cycle in Asset Management: Practices on Pavement**(Nguyễn Đình Thạo, UTC) |
| 1 | 9:10-10:00 | **Introduction to Asset Management**(Kiyoshi Kobayashi, Kyoto University) | 5 | 14:50-15:40 | **Asset Management - Bridge Management 1**(Keiichi Tamura, Kyoto University) |
| 2 | 10:00-10:50 | **Bridge Management in Vietnam**(Representative of MOT or UTC, Vietnam) |  | 15:40-16:00 | Tea Break |
|  | 10:50-11:10 | Tea Break | 6 | 16:00-16:50 | **Slope Management**(Hiroyasu Ohtsu, Kyoto University) |
| 3 | 11:10-12:00 | **Pavement Management in Vietnam**(Nguyễn Đình Thạo, UTC) |  |
| **Day 2****(22/9/2015)** | 7 | 9:00-9:50 | **Asset Management - Bridge Management 2**(Keiichi Tamura, Kyoto University) | 10 | 14:00-14:50 | **Trial Running of PMS Kyoto Model (PC Room)**(Kazuya Aoki, Kyoto University) |
| 8 | 9:50-10:40 | **Bridge Management System in Vietnam**(To Giang Lam, UTC) | 11 | 14:50-15:40 | **Database Development of Bridge and Pavement (PC Room)**(Kazuya Aoki, Kyoto University) |
|  | 10:40-11:00 | Tea Break |  | 15:40-16:00 | Tea Break |
| 9 | 11:00-11:50 | **Pavement Inspection Technology**(PASCO Vietnam) | 12 | 16:00-16:50 | **Correlation between Health Index and Deterioration Index - Bridge**(Kan Abekura, Kyoto University) |
| **Day 3****(23/9/2015)** | 13 | 9:00-9:50 | **Kyoto BMS - New Approach of Forecasting Model 1**(Kiyoyuki Kaito, Osaka University) | 16 | 14:00-14:50 | **Examination** |
| 14 | 9:50-10:40 | **Kyoto BMS - New Approach of Forecasting Model 2**(Kiyoyuki Kaito, Osaka University) |  | 15:00-16:30 | **Ceremony of 10th Anniversary and Special Seminar on Pavement**- Certificate Conferring and Closing of Joint Course |
|  | 10:40-11:00 | Tea Break |  |
| 15 | 11:00-11:50 | **Asset management - Concrete Structure**(Hirotaka Kawano, Kyoto University) |  |