



Course Outline

Annual International Training Course

1. Course Title: Bamboo Propagation, Cultivation, Plantation Management and Utilization

2. Duration:

August 18-27, 2025

3. Background and Rational:

Thailand International Cooperation Agency (TICA)

TICA is a national focal point for Thailand's international development cooperation. TICA was established in 2004 to realize Thailand's aspiration to be a contributor of development cooperation. Believing that global challenges are best addressed by international cooperation and global partnership, today we continue to strengthen our contribution to achieve global development agenda through various capacity building and human resources development programmes. In response to the recent changes in the global landscape of development cooperation, especially through the concept of South-South and Triangular Cooperation, TICA continues to realign our focuses in order to deliver Thailand's commitment to be a relevant partner in global agendas including the 2030 Agenda for Sustainable Development

Organization/Institution

The Faculty of Forestry - Kasetsart University (KUFF) was firstly established on 1st May 1936 as a Forest School in Phrae province, northern Thailand. The school was renamed the Forestry School and the College of Forestry in 1939 and 1947, respectively. Since then, it has been the only faculty in Thailand that offers higher education and degrees in forestry and related fields. At present, the Faculty of Forestry consists of six departments including Forest Management; Forest Biology; Forest Products; Silviculture; Forest Engineering; and Conservation.

The Faculty of Forestry offers an undergraduate program in a Bachelor of Science (Forestry) in the 8 majors comprising of Watershed and Environment Management; Forest Biological Science; Forest Engineering; Silviculture; Park, Recreation, and Tourism; Wildlife and Range Management; Forest Management; and Social Forestry. In addition, it offers 5 master's degree programs including (1) Forestry; (2) Forestry Resource Management; (3) Forest Biological Science; (4) Parks, Recreation, and Tourism; and (5) Forest Resource and Environmental Administration. The M.Sc. (Forestry) comprises 5 branches namely (1) Watershed and Environment Management; (2) Forest Engineering; (3) Silviculture; (4) Wood Industrial Technology; and (5) Pulp and Paper Industrial Technology. Furthermore, the department offers a doctoral program, Doctor of Philosophy (Forestry) which consists of 7 branches such as (1) Forestry Resource Management; (2) Watershed and Environment Management; (3) Forest Ecology; (4) Forest Engineering; (5) Silviculture; (6) Wood Industrial Technology; and (7) Parks, Recreation and Tourism. Currently (in 2022), there are 1316 bachelor students, 266 master students, and 32 doctoral students in the Faculty of Forestry, Kasetsart University.

Not only the comprehensive learning facilities at the Faculty of Forestry in Bangkok, but our undergraduate and graduate students also become familiar with forestry fieldwork and research by working and researching in 8 research and training stations of the faculty located throughout Thailand. Each of the research and training stations are situated in different forest types such as evergreen forest, dipterocarp forest, deciduous forest, restoration forest, agroforest, urban forest, and plantation.

4. Objectives

The program is designed to provide an understanding of the different types of bamboo propagation methods, condition requirements and factors in the establishment and management of bamboo plantation and demonstrate practical application of the different types of propagation methods.

5. Course Contents:

An overview of bamboo: Resources of the world
Overviews of bamboo management and utilization
Bamboo Propagation
Site selection and preparation for bamboo cultivation
Bamboo cultivation and plantation management
Bamboo Utilization

6. Participants' Criteria:

Applicants must fulfill the following requirement:

- Be nominated by their respective governments;
- Education: graduated with a bachelor's degree in forestry or related field;
- Language: proficiency in English (speaking, reading and writing)

7. Attendance and Evaluation

Participants who complete the training will receive a certificate based on:

- Real-time class attendance (not less than 80%)
- Interactive class participation
- Presentation and report
- Evaluation

8. Venue:

Royal Agricultural Station Pangda, 192 Moo 10, Samoeng Tai Sub-district, Samoeng District, Chiang Mai 50250

9. Expected Results:

- Knowledge transfer on Bamboo Propagation, Cultivation, Plantation Management and Utilization
- The international network of academic cooperation in forestry will be created

10. Organization/ Institution:

- **Implementing Agency;**
Forestry Research Center, Faculty of Forestry, Kasetsart University, Bangkok,
Thailand 10900
- **Contact Person**
Assist.Prof.Dr. Kobsak Wanthongchai
Tel : (66) 02 5614761 Cell phone: 0858370779
E-Mail:fforksw@ku.ac.th

11. Expenditure/Funding:

Thailand International Cooperation Agency (TICA)
Government Complex, Building B (South Zone), 8th Floor,
Chaengwattana Rd. Laksi District, Bangkok 10210 THAILAND
Website: <http://tica-thaigov.mfa.go.th/en/index>
Email: aite@mfa.go.th

12. Organizing Committee

Assist.Prof.Dr. Kobsak Wanthongchai
Assoc.Prof. Dr.Sapit Diloksumpun
Ms. La-ongdao Thaopimai
Mr. Kittisak Jindawong
Mrs. Waraporn Lumyai
Mr. Wasan Chandaeng
Ms. Jintala Klinhuan
Ms. Sirapatsorn Chomcheal

Schedule for the Training Programme:

Date/Period/ Topic	Time (Thailand time)	Content	Speaker	Note
Day 1:				
	-	Arrival of Participants Opening session and orientation Welcome Dinner	KUFF facilitators	
Day 2:	09.00-12.00	Lecture 1 -Overviews of Royal Project Foundation and Pangda Station	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.30	Study Visit 1 -Pangda Station		
Day 3:				
	09.00-12.00	Lecture 2 -An overview of bamboo: Resources of the world	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.00	Lecture 3 -Overviews of bamboo management and utilization	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
Day 4:				
	09.00-12.00	Lecture 4 -Bamboo Propagation	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.00	Field Practice 1 -Propagation techniques: Culm cutting	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
Day 5:				
	09.00-12.00	Field Practice 2 -Propagation techniques: Branch cutting	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.00	Field Practice 3 -Propagation techniques: Branch air layering	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
Day 6:				
	09.00-12.00	Field Practice 4 -Propagation techniques: Rhizome separation	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.00	Lecture 5 -Site selection and preparation for bamboo cultivation	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
Day 7:				
	08.00-17.00	Study visit: 2 - Bamboo utilization (3 sites)	Teaching Team of the Faculty of Forestry, Royal Project Foundation and Private sector	

Date/Period/ Topic	Time (Thailand time)	Content	Speaker	Note
Day 8:				
	09.00-12.00	Lecture 6 -Bamboo cultivation and plantation management	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.00	Field Practice 5 - Bamboo cultivation and plantation management		
Day 9:				
	09.00-12.00	Lecture 7 - Report preparation	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
	13.00-16.00	Presentation -Report presentation -Closing session	Teaching Team of the Faculty of Forestry and Royal Project Foundation	
Day 10:				
	-	Departure of participants	Training facilitator	