



BADAN METEOROLOGI KLIMATOLOGI DAN GEOFISIKA

PUSAT PENDIDIKAN DAN PELATIHAN

Jl. Angkasa I No. 2, Kemayoran, Jakarta Pusat 10720
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Nomor : e.B/KP.02.00/028/KDL/II/2024 Jakarta, 16 Februari 2024
Sifat : SEGERA
Lampiran : 2 (dua) halaman
Hal : Tawaran mengikuti *Annual International Training Course*
(AITC) - *Climate Smart Agriculture: Smart Farming*
Practices dari Pemerintah Thailand Tahun 2024

Yth. Bapak/Ibu (Mohon Periksa Lampiran I)

di

Tempat

Berdasarkan informasi yang diperoleh dari surat resmi Sekretariat Negara tentang Penawaran *Annual International Training Course (AITC) via Online and Offline Platforms in 2024* dari Pemerintah Thailand, bersama ini kami sampaikan bahwa terdapat program pelatihan *Climate Smart Agriculture: Smart Farming Practices* akan dilaksanakan pada tanggal 29 April s.d. 17 Mei 2024 secara luring/*offline*. Adapun yang dapat mendaftar pada pelatihan ini yaitu para prakitirawan, analis, peneliti, dosen, widyaiswara, praktisi khususnya dalam bidang meteorologi/ klimatologi dengan ketentuan tercantum pada Lampiran.

Biaya pelatihan akan ditanggung oleh Pemerintah Thailand diantaranya biaya pendidikan, tiket penerbangan internasional kelas ekonomi p.p, akomodasi, uang saku, asuransi dan *airport transfer*. Informasi terkait detail program, *Application Form and Medical Report*, *deadline* pencalonan peserta, batas waktu, dan pendaftaran online dapat mengakses tautan <https://bit.ly/AITC2024Calendar>. Batas waktu pendaftaran pelatihan ini terlampir.

Sehubungan dengan hal tersebut, kami mohon bantuan Bapak/Ibu untuk dapat menginformasikan kesempatan pelatihan ini kepada seluruh pegawai yang berada di unit kerja masing-masing, dengan mempertimbangkan tugas pokok dan fungsinya.

Selanjutnya, terkait tata cara pendaftaran dan kelengkapan berkas, mohon dapat mencermati ketentuan pada **Lampiran II**. Untuk mengetahui lebih lanjut terkait pelatihan ini, Bapak/Ibu dipersilahkan menghubungi narahubung (*contact persons*) yang tercantum pada pengumuman pendaftaran pelatihan ini.



Demikian disampaikan, atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Kepala Pusat Pendidikan dan Pelatihan,



Nelly Florida Riama

Tembusan:

1. Kepala BMKG;
2. Sestama BMKG;
3. Kepala Biro Hukum dan Organisasi.

Lampiran I Surat

Nomor : e.B/KP.02.00/028/KDL/II/2024

Tanggal : 16 Februari 2024

DAFTAR LAMPIRAN

1. Kepala Pusat Informasi Perubahan Iklim;
2. Plt. Kepala Pusat Layanan Informasi Iklim Terapan;
3. Plt. Kepala Pusat Penelitian dan Pengembangan BMKG;
4. Plt. Ketua STMKG;
5. Kepala Balai Besar MKG Wilayah I – V;
6. Para Kepala UPT Klimatologi BMKG di seluruh Indonesia.



Lampiran II Surat

Nomor : e.B/KP.02.00/028/KDL/II/2024

Tanggal : 16 Februari 2024

TATACARA PENDAFTARAN DAN KELENGKAPAN BERKAS

1. Pelamar mencermati informasi terkait pelatihan dan berkonsultasi untuk mendapat persetujuan dari Kepala UPT/ Kepala BBMKG Wilayah I - V/ Kepala Pusat/ Ketua STMKG. Pelatihan yang akan diikuti harus sesuai dengan tugas pokok dan fungsi unit kerja dan *job desk* peserta. Untuk keberhasilan dan manfaat optimal dalam mengikuti pelatihan, diperlukan komitmen peserta untuk mengikuti dengan sungguh-sungguh pelatihan dimaksud;
2. Pelamar melakukan pendaftaran mandiri secara daring melalui website AITC di alamat <https://bit.ly/AITC2024Calendar> dengan batas waktu sebelum tanggal **26 Februari 2024**.
3. Peserta diwajibkan untuk melapor ke Pusdiklat BMKG perihal pengajuan diri mendaftar pada pelatihan ini dengan melampirkan bukti pendaftaran dan mengirimkan surat ke alamat apply.rtcbmkg@bmgk.go.id subject email [Daftar AITC].
4. Peserta yang telah menginfokan ke Pusdiklat akan dibuatkan Surat Pengantar ke Sekretariat Negara (Setneg) untuk keperluan proses penerbitan *Endorsement* di Sekretariat Negara. Peserta wajib melapor kepada Sekretariat Negara melalui *Endorsement Form* yang tersedia pada Website Setneg di alamat <https://ktln.setneg.go.id/id/beasiswa/detail?id=320> dengan melampirkan Surat Pengantar. Peserta wajib melapor kembali ke Pusdiklat untuk pendataan ulang.
5. Setelah dinyatakan diterima dan memperoleh *grant* untuk pelatihan ini agar SEGERA kembali melaporkan statusnya kepada Pusdiklat BMKG dengan melampirkan pengajuan pengurusan berkas perjalanan dengan tembusan Biro Hukum dan Organisasi.
6. **Penting:** Mohon mencermati tenggat waktu proses pelatihan dan alur pendaftaran.
7. CP Pusdiklat Khafid Rizki Pratama (khafid.pratama@bmgk.go.id).





**KEMENTERIAN SEKRETARIAT NEGARA
REPUBLIK INDONESIA**

Jalan Veteran No. 17-18, Jakarta 10110, Telepon (021) 3845627, 3442327
Faksimile (021) 3813583, Situs: www.setneg.go.id

Nomor : B-54/S/KTLN/LN.03.00/02/2024
Sifat : Sangat Segera
Lampiran : -
Hal : Penawaran Annual International Training
Course (AITC) via Online and Offline
Platforms in 2024 dari Pemerintah Thailand

2 Februari 2024

Yth. Pejabat terlampir
di tempat

Bersama ini dengan hormat, kami sampaikan tawaran untuk mengikuti *Annual International Training Course (AITC) via online and offline platforms 2024* dari Pemerintah Thailand. Program ini merupakan salah satu program peningkatan kapasitas dalam kerangka kerja sama teknik antara Pemerintah Indonesia dan Pemerintah Thailand dalam 4 (empat) bidang yakni pertanian dan ketahanan pangan, *Sufficiency Economy Policy (SEP)*, *Bio-Circular-Green Economy (BCG) Model*, dan kesehatan masyarakat.

Terdapat 14 program pelatihan yang akan dilaksanakan secara daring (*online*) dan 1 program pelatihan yang dilaksanakan secara luring/*offline*. Pelatihan *Climate Smart Agriculture: Smart Farming Practices* akan dilaksanakan pada tanggal 29 April s.d. 17 Mei 2024 di Thailand. Ada pun Pemerintah Thailand akan menanggung biaya sehubungan dengan penyelenggaraan kegiatan tersebut, antara lain biaya pendidikan, tiket penerbangan internasional kelas ekonomi p.p., akomodasi, uang saku, asuransi dan *airport transfer*. Informasi terkait detail program, *Application Form and Medical Report*, *deadline* pencalonan peserta, dan *pendaftaran online* dapat mengakses tautan <https://bit.ly/AITC2024Calendar> dan *Website/Situs* KTLN (<https://ktln.setneg.go.id>)

Berkenaan dengan hal tersebut, mohon kiranya masing-masing instansi dapat mengajukan 2 (dua) Pegawai Negeri Sipil (PNS) sebagai calon peserta untuk setiap pelatihan yang memiliki tugas pokok dan fungsi yang sesuai dengan program pelatihan. Adapun persyaratan dan mekanisme pendaftaran yang berlaku adalah sebagai berikut:

1. Memiliki latar belakang pendidikan atau pengalaman kerja terkait dengan tema pelatihan minimal 2 tahun s.d 5 tahun. Mohon untuk diperhatikan ketentuan dan persyaratan khusus pada pelatihan yang dipilih;
2. Diutamakan berusia dibawah 55 tahun
3. Mahir berbahasa inggris secara lisan dan tulisan
4. Pencalonan peserta agar melampirkan berkas administrasi sebagai berikut:
 - Surat pengantar/rekomendasi dari *focal point* masing-masing instansi yang ditujukan kepada Kepala Biro Kerja Sama Teknik Luar Negeri, Kemensetneg (bagi instansi di daerah harap memperhatikan alur koordinasi dengan kementerian/lembaga pusat yang menaungi);
 - Daftar riwayat hidup dalam Bahasa Inggris;
 - Sertifikat Bahasa Inggris terbaru minimal nilai 450 (TOEFL) atau *score band 5* (IELTS);
 - Bukti pengisian *Online Application Form*;
 - *Application form and Medical Report* yang telah diisi secara lengkap.

5. Guna proses endorsement oleh Biro KTLN Kemensetneg, calon peserta wajib mengisi dan menyampaikan berkas pencalonan di atas melalui website KTLN (<https://ktln.setneg.go.id>) sesuai dengan batas waktu masing-masing pelatihan. Petunjuk pengisian *endorsement form* dan *General Information (GI)* dapat dilihat melalui laman setiap pelatihan AITC 2024 di *website* KTLN. Ada pun batas waktu penyampaian dokumen untuk *endorsement* dapat di lihat pada masing-masing pelatihan di website KTLN/lampiran surat penawaran (terlampir). Apabila terdapat kendala pada proses pengisian *endorsement form* di *website* KTLN, silahkan menghubungi via email ke beasiswa-ktln@setneg.go.id.

Atas perhatian dan kerja sama yang baik, kami sampaikan terima kasih.

Kepala Biro Kerja Sama Teknik
Luar Negeri,

#

Noviyanti

Tembusan:



Thailand International Cooperation Agency
Ministry of Foreign Affairs of Thailand

GUIDELINES

for Thailand's Annual International Training Courses (AITC) Programme

1. About AITC

Realizing a significance role of Human Resources Development in economic and social development, the Royal Thai Government attaches great importance towards forging cooperation through South-South Cooperation, particularly through organizing short-term training programmes. The Annual International Training Courses (AITC) is one of flagship programmes conducted by Thailand International Cooperation Agency (TICA). Aiming at sharing Thailand's best practices and experiences to the world, the AITC programme offers short-term training courses under a wide range of development-related topics.

AITC course is categorized under four plus one themes. The highlighted themes is Sufficiency Economy Philosophy (SEP), the key factor behind Thailand's achievement of sustainable development in many areas. The other themes are areas in which Thailand's best practices can help address global challenges. They include Food Security, Climate Change, Public Health and other Sustainable Development Goals (or SDGs) related topics. To keep up with the dynamism of sustainable development agendas, the AITC courses are updated regularly with the main themes revised every three years. During 2017 – 2019, TICA is pleased to offer more than 90 short-term training courses with the expected number of participants of nearly a thousand from developing countries around the world.

2. Qualifications

2.1 Candidates must be nominated by central government agencies in a country from the AITC eligible countries/territories list. (See "List of Eligible Countries/Territories")

2.2 Candidates should be an officer or agent (preferably from government agencies) currently working in the area related to the training topic.

2.3 Candidates must have a degree and/or professional experience suitable to the training topic.

2.4 Candidates must have a good command of English.

2.5 It is recommended that candidates be less than 55 years of age.

2.6 Candidates must be in good health.

2.7 Nomination of female candidates is encouraged.

2.8 TICA reserves the rights to revoke fellowship offered to participants who are pregnant during the period of training.

3. Procedures for submission of nominations

3.1 Nomination must be made by central government agencies in charge of nomination of national candidates (such as Ministry of Foreign Affairs) **or** by relevant central government agencies for which the nominated candidates currently work. Nomination must be in line with relevant rules and regulations of the nominating countries/territories.

Each eligible countries/territories are invited to nominate up to two (2) candidates per course.

3.2 The nomination must be supported by the following two documents;

- Application form
- Medical Report

Two (2) copies of originals of all forms duly filled out, counter-signed and stamped by the authorized person must be submitted.

3.3 The nomination must be submitted to TICA through the Royal Thai Embassy/ Permanent Mission of Thailand to the United Nations/ Royal Thai Consulate-General accredited to eligible countries/territories. (See “List of Eligible Countries/Territories”)

3.4 Originals of nomination documents, duly filled out, must be received no later than a specified deadline of each course.

3.5 Application form must be filled in typed-block letter. Soft file of the Application Form and Medical Report Form can be found at

<http://www.tica.thaigov.net/main/contents/files/information-20161217-152430-795372.pdf>

4. Selection of candidates

4.1 In considering applications, particular attention shall be paid to the candidates' background, their current position in the service of their Government, and practical use they expect to make of the knowledge and experience gained from training on the return to their Government positions.

4.2 Selection of participants is also based on geographical distribution and gender balance, unless priority is set for particular country/ group of countries.

4.3 TICA will inform all successful applicants through the Royal Thai Embassy/ Permanent Mission of Thailand to the United Nations/ Royal Thai Consulate-General accredited to eligible countries/territories. Moreover, name list of successful applicants will be posted on TICA's website approximately two weeks before the commencement of the course.

4.4 No written notification will be sent to unsuccessful applicants.

5. Duration of the courses

All AITC courses are carried out on a full-time basis. The exact dates for each course are as specified.

6. Attendance and Activities of the Programme.

6.1 Participants are required to attend all activities organized during the course as attendance in all sessions is obligatory. TICA reserves the rights to revoke its fellowship offer or take appropriate action deemed appropriate in case a participant is in attendance of less than 90 percent of the training hours.

6.2 Each AITC course is designed according to its respective purpose. Most courses comprise three segments: lecture, field visit and workshop.

6.3 Participants are required to prepare their country report on topic relevant to the training course prior to the beginning of the course and prepare for their presentation during the course.

7. Travel and financial arrangements

7.1 Successful candidates will be offered an award which covers:

- Return economy class airfare
- Accommodation for the duration of training in Thailand
- Training allowance
- Social programme

- Insurance
- Airport meeting service

7.2 Regulations on travel and financial arrangements

- International travel - Return economy class air ticket will be provided via the most direct and most economical route from the international airport at participant's respective country/territory to the location where the course will take place. The award does not cover domestic travel cost in participant's respective country.

Transit destination will be arranged according to a need for visa application to Thailand and/or on the most direct and most economical route basis.

All booking and change to the booking, including a setting of date of arrival and departure, must be done by TICA only. Ticket will be issued in electronic form (e-ticket) only.

Baggage allowance quota is in line with the airlines' policy. Any purchase for extra baggage allowance is not covered by the award.

- Training allowance – Participants are entitled to receive a daily allowance in the course of the programme at the rates established by the Royal Thai Government which is designed to cover the cost of all meals. Therefore, the daily allowance will be reduced if meals are provided by the organizers. The allowance is not a salary or an honorarium. The allowance is not intended to cover the fellow's continuing expenses at home, nor personal expense. Therefore, it is suggested that each participant should bring some pocket money to cover their personal expenses. Allowance and all reimbursement will be made in Thailand and in Thai Baht (THB) only.

- Insurance – Group Accident and Hospitalization Insurance during the period of training in Thailand will be provided. The insurance does not cover pre-existing illnesses and outpatient medical/dental treatment. Participants are advised to obtain their own travel insurance which is fully covered for any costs arising from loss or theft of personal belongings.

- Accommodation – Accommodation will be provided to all participants during their training in Thailand at designated hotel/accommodation. Any cost arising from accommodation arranged by participants themselves cannot be reimbursed in all case. Accommodation does not cover any cost arising from participant's personal consumption i.e. mini bar, international/local call or internet (unless provided as compliment by the hotel.)

- Visa arrangement – Participants will be responsible for obtaining appropriate visa prior to their travel to Thailand, if required. List of countries entitled for visa exemption and visa on arrival to Thailand can be found at <http://www.consular.go.th/main/th/customize/62281-Summary-of-Countries-and-Territories-entitled-for.html>. TICA will provide facilitation to participants who require visa application i.e. liaising with the Royal Thai Embassy/ Consulate and advising on appropriate procedure and necessary documents for visa application.

Participants must cover all costs arising from visa application i.e. visa fee, travel cost to the Royal Thai Embassy/ Consulate, postal fee (in case visa application is made by post,) transit visa fee (in case participants needs to apply for visa to Thailand at a transit country). The visa fee can be reimbursed upon presenting an original receipt of the fee but not exceed 2,000 THB.

Participants must not bring their family members with them during their training period. Participation in the training cannot be used as reference for visa application to Thailand of his/her family member.

- Airport meeting service – Transfer to and from airport will be provided to participants. TICA will coordinate directly with the limousine service to prepare for the airport transfer.

8. Contact

For more information, please contact;

Bureau of International Cooperation on Human Resource Development

Thailand International Cooperation Agency (TICA)

Government Complex, Building B (South Zone), 8th Floor,

Chaengwattana Rd. Laksi District,

Bangkok 10210

THAILAND

Website : www.tica.thaigov.net

Email : aitc@mfa.go.th



**Thailand International Cooperation Agency
Ministry of Foreign Affairs of Thailand**

**APPLICATION FORM
for Annual International Training Course (AITC) Programme**

<p>INSTRUCTIONS</p> <p>The AITC application form is composed of four parts. Part A to part C must be completed by candidate and part D by central government agency*. All fields are mandatory. Application form must be filled in <u>typed-block letter</u>. The nomination must be supported by this application form and medical report. Two (2) copies of originals of all documents duly filled out, counter-signed and stamped by the authorized person must be submitted to TICA through the Royal Thai Embassy/ Permanent Mission of Thailand to the United Nations/ Royal Thai Consulate-General accredited to eligible countries/territories. Originals of nomination documents, duly filled out, must be received no later than a specified deadline of each course. Soft file of this application form can be downloaded at http://www.tica.thaigov.net</p> <p>* For detailed information on nomination process, please see "Guideline for AITC"</p>	<p>(Please attach photograph here)</p>
<p>Course Name:</p>	

A. PERSONAL HISTORY (Please attach a copy of your passport)

Title	Family name	Given name	Other name	Gender		
<input type="radio"/> Mr. <input type="radio"/> Ms. <input type="radio"/> Mrs. <input type="radio"/>				<input type="radio"/> Male <input type="radio"/> Female		
City and country of birth	Nationality	Date of birth (DD/MM/YY)		Age	Marital Status	Religion
Work address:			Home address:			
Telephone No: (Country Code / Area Code / Number)			Telephone No: (Country Code / Area Code / Number)			

Email address:

Preferred International Airport of departure/arrival :

Contact person in case of emergency:
Name: Relationship of this person to you:
Telephone No: Email:

LANGUAGE

English proficiency	Read			Write			Speak		
	Excellent	Good	Fair	Excellent	Good	Fair	Excellent	Good	Fair

Mother tongue:

EDUCATION

Name of Institution	City / Country	Years attended		Degrees, Diplomas and Certificates	Special fields of study
		From	To		

Have you ever been trained in Thailand? If yes, please specify course name and duration.

No

Yes, please specify

B. EMPLOYMENT (Important to give complete information)

Name of Organization/ Institution	Period (from-to)	Title of Position	Duties and Responsibilities

C. EXPECTATIONS

Please describe your present work/responsibilities and the practical use you will make of this training/study on your return home in relation to the responsibilities you expect to assume. (attached paper, if necessary)

I certify that my statements in answer to the foregoing questions are true, complete and correct to the best of my knowledge and belief. If offered the training award, I undertake to :-

- (a) conduct myself at all time in a manner compatible with my responsibilities as a participant of the training course;
- (b) spend full time during the period of the programme as directed by TICA and training institution;
- (c) refrain from engaging in in political, commercial, or any other activities except those governed by the training programme;
- (d) submit a well-researched country report or any papers and make a prepared presentation as assigned;
- (e) accept the travel arrangements and the financial conditions relating to the fellowship provided by the Royal Thai Government
- (f) return to my home country upon the completion of my course of training.

Signature of candidate:

Printed name:

Date:

D. NOMINATION: To be completed by authorized person of the nominating agencies of the AITC eligible countries/territories. (See “Guideline for AITC” for detailed information on nomination.

I certify that;

(a) The activities under this training will contribute to the specialization of the nominee. And in the case of a fellowship being granted to the nominee, full use would be made of the fellow’s expertise in the field covered by her/his fellowship;

(b) to the best of my knowledge, all information supplied by the nominee is complete and correct;

(c) to the best of my knowledge, the nominee has adequate knowledge and experience in related fields and has adequate English proficiency for the purpose of the fellowship in Thailand.

On return from the fellowship, the nominee will be employed in the following position:

Title of post

Duties and responsibilities.....

Official stamp:

Signature of responsible government official

Organization:

Name and title of responsible government official

Official address:

Telephone no.:

Facsimile:

Email:

MEDICAL REPORT

INSTRUCTIONS

To be completed in capital letters by a registered medical practitioner after thorough clinical and laboratory examination including x-ray of chest.

Name of Nominee:

Age :

Gender :

Nationality:

1. Is the person examined at present in good health and able to work full time?

2. Is the person examined able physically and mentally to carry on an intensive study programme away from her/his duty station/home place?

3. Is the person examined free from infectious diseases which could present risks for both the candidate and her/his contacts during the fellowships?

4. Does the person examined have any medical conditions which might require treatment during her/his fellowships?

5. (For female nominee) Is the person examined pregnant?

I certify that the person examined is medically fit to undertake a training course in Thailand.

Physician signature (with stamp)

Full name and address of examining physician:

Place and Date:

Telephone no.:

Email:



Course Outline

Annual International Training Course

Theme: Climate Change and Environmental Issues

1. **Course Title:** Climate Smart Agriculture: Smart Farming Practices
2. **Duration:** 3 Weeks
3. **Background:**

Thailand International Cooperation Agency (TICA)

TICA is a national focal point for Thailand's international development cooperation. It 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, TICA continues to work closely together with its development partners to realize the 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, TICA has strengthened its partnerships to harness the synergy of South-South and Triangular Cooperation to tackle global development challenges, including expediting the implementation of Sustainable Development Goals (SDGs). It also continues to realign our focuses in order to deliver Thailand's commitment as a global reliable partner.

Since 1991, TICA, in collaboration with educational institutions in Thailand, has offered short-term training courses under its Annual International Training Course (AITC) programme. The number of courses offered each year varies between 25 to 35 courses for 20-35 participants per course. AITC not only fosters good and friendly relations which Thailand has already enjoyed with recipient countries across regions, but also helps Thailand to reach out to those countries with which we desire to engage more closely. The courses offered by TICA in 2023-2025 are categorized into 5 themes: Sufficiency Economy Philosophy (SEP), food security, climate change and environmental issues, public health and BCG Model related.

Organization/Institution

School of Science, Walailak University

Walailak University is a residential university equipped with modern educational facilities, services and accommodation for students and staff, located against a beautiful backdrop of mountain scenery in Nakhon Si Thammarat Province, Thailand. The University has a total area of 3,600 acres, making it the largest campus of any university in Thailand. Established in 1999, the School of Science at Walailak University is one of the leading institutes in science in southern Thailand. The faculty focuses on producing a number of qualified researchers to serve industrial needs. It currently consists of five departments namely, Biology, Physics, Chemistry, Mathematics and Statistics, and Marine Science Departments. This training course will be conducted by Center of Excellence for Ecoinformatics and School of Science, Walailak University.

Course background

Crop production is vital to global food security strongly affected by climate change all over the world, and more severe in impoverished communities. In the next decade, climate change would be a main cause of shortages of water and food and greater risks to health and life for billions of people living in developing countries. With fewer social, technological and financial resources for adapting to changing conditions, developing countries are the most vulnerable to the impacts of climate change (UNFCCC, 2007). Climate-smart Agriculture is defined by the Food and Agriculture Organization (FAO) as agriculture that sustainably increases productivity, enhances the resilience of livelihoods and ecosystems, reduces and/or removes greenhouse gases (GHGs) and enhances the achievement of national food security and development goals. Climate-smart agriculture production contributes to food security, by addressing different aspects of current climate change impacts through adaptation and mitigation actions. The agriculture sector is not only among the most vulnerable sectors to the impacts of climate change, it is also directly responsible for 14 percent of global greenhouse gas emissions. In addition, the sector is a key driver of deforestation and land degradation, which account for an additional 17 percent of emissions. The agricultural sector can be an important part of the solution to climate change by capturing synergies that exist among activities to develop more productive food systems and improve natural resource management.

Climate-smart agriculture is rooted in sustainable agriculture and rural development objectives which, if reached, would contribute to achieving the Millennium Development Goals (MDGs) of reducing hunger and improved environmental management. More productive and resilient agriculture is built on the sound management of natural resources, including land, water, soil and biodiversity. Conservation agriculture, agroforestry, improved livestock and water management, integrated pest management and ecosystem approaches to fisheries and aquaculture can all make important contributions in this area. Our knowledge and practices should be firmly rooted in the rich culture and heritage of the people of southeast Asia to enable them to grow into responsible citizens through consciously practicing Climate Smart Agriculture in view of climate change and its effects.

In setting out this framework for the training on climate smart agriculture using smart farming practices, we provide for the ambitions of sustainable living through climate smart agricultural practices by empowering learners with the necessary skills in view of the changing climate. Climate smart agriculture looks at the prosperity of the people of developing countries for improved living, better quality of life, for growth and development, for improved agricultural practices that take cognisance of the changing climate incorporate new sensor and IoT technology to manage their farms.

The 21st century is a time of rapid technological growth and social change and this workshop is aiming at ensuring that the people of all developing countries are well prepared to meet the challenges of climate change. They should also be able to explore the opportunities for improved agricultural outputs in view of the changing climate using smart farming practices. The training on climate smart agriculture using smart farming practices has to prepare both the youth and adults not just for the day to-day but for the changing life ahead and in particular climate changes.

The training on climate smart agriculture using smart farming practices at Walailak University should instil confidence in individuals and all agricultural practitioners to face the challenges of climate change ahead of them and they need to develop love and appreciation for good agricultural practices that will address climate change issues. The individuals should also become successful life-long learners and continue to operate/live effectively through practicing the appropriate agricultural methods in a rapidly changing climate.

To achieve the ambitions of climate smart agriculture using smart farming practices, we need a vibrant and dynamic workshop. A climate-smart agriculture workshop at Walailak University will provide challenges to individuals/farming practitioners/people through use of inquiry based learning and research based approach that will stimulate and inspire everyone to practice. Understanding the actual impacts of climate change in various sectors especially in agriculture is critical for purposes of sustainability and moving in the right direction. Under the Center of Excellence for Ecoinformatics, School of Science, Walailak University, we have more than 15 years of experience implementing sensor technology, automatic weather stations, soil stations with soil moisture/temperature sensors, leaf-wetness sensors, eco-camera, IoT technology in agriculture. We are experts on utilized weather and soil data for smart-agriculture and frequently do training for farmers in various crops e.g. corns, coffee, Siam ruby pomelo, mangosteen and also shellfish aquaculture. Training in climate smart agriculture using smart farming practices at Walailak University will create awareness, provide knowledge and management skills, disseminate and replicate best practices on climate smart agriculture adaptation and mitigation approaches for improved agricultural yields/production and improved quality of living.

4. Objectives

The program is designed to

- 4.1. To strengthen the current agricultural training programmes to be responsive to the climate change challenges and sustainable development
- 4.2. To build a critical cadre of human resource who will promote/practice of climate smart agriculture adaptation and mitigation.

5. Course Contents

5.1 Course Outline

Day	Key concepts/activities
Monday 29 Apr 2024 (Lecture 6 hrs)	1. Opening ceremony 2. Opening speech from Walailak University President, Prof. Dr. Sombat Thamrongthanyawong 3. Welcome speech from TICA 4. Participants introduction 5. Walailak University Campus Tour
Tuesday 30 Apr 2024 (Lecture 6 hrs)	Why Climate-smart agriculture? Food security and climate change. More efficient and resilient systems. Increase systemic efficiency and resilience: policies, institutions finances. Class announcement, daily photos and VDO clips of each lecture will be posted daily at this Facebook Page. 1. Why climate smart agriculture? 2. Climate change impacts on crop production
Wednesday 1 May 2024 (Lecture 6 hrs)	Climate smart agriculture includes proven practice techniques: 1. crop rotation and 2. intercropping
Thursday 2 May 2024 (Lecture 6 hrs)	Climate smart agriculture includes proven practice techniques: 1. Agroforest, 2. Mulching, 3. Water management, 4. Agriculture and green house gas.
Friday 3 May r 2024 (Lecture 6 hrs)	Overview of SEP. Examples of SEP best practices in agriculture.
Saturday 4 May 2024	Cultural tour in Nakhon Si Thammarat. Visit Nakhon Si Thammarat National Musuem, tasting local foods, watching local puppet museum and cultural show, enjoy local ways of life and buying some local handmade arts and crafts.

Sunday 5 May 2024	Sightseeing at Khanom beach, long tailed boat ride, Indo-pacific dolphin and Fish spa
Monday 6 May 2024 (Lecture 6 hrs)	Soil conservation for climate-smart agriculture. Soil health, key functions and soil: plant-water interrelations. Challenges of climate change, adaption, mitigation and enhancing resilience to soils. Successful examples of soil management practices for climate-smart agriculture with a focus on resilience
Tuesday 7 May 2024 (Lecture 6 hrs)	Soil water management for climate-smart agriculture.
Wednesday 8 May 2024 (Lecture 6 hrs)	Climate smart agriculture innovative practices on weather forecasting, early-warning systems and climate-risk insurance.
Thursday 9 May 2024 (Lecture 6 hrs)	Climate smart agriculture innovative practices using sensor technology and IoT.
Friday 10 May 2024 (Lecture 6 hrs)	Field trip to Siam Ruby Pomelo and Mangosteen smart farming. Observe good practices in how to manage soil, manage water, fertilizer, pest management, deploying sensors technology in the farm for best product quality.
Saturday 11 May 2024	Visit the Royal-initiated Pak Phanang River Basin Development Project and Royal Residential Hall of Pakpanang. This project aims to resolve the deterioration of the naturally fertile Pak Phanang River basin. Visit local Nipa farm, and their way of life. Take a boat trip to the Gulf of Thailand to see the local fisheries and watching sunset over the Gulf of Thailand.
Sunday 12 May 2024	Jedi Temple, Yangyai Temple, Sichon Beach
Monday 13 May 2024 (Lecture 6 hrs)	Climate-smart fisheries and aquaculture. Climate-smart approaches. Practical themes for developing climate-smart

	fisheries and aquaculture. Strategic climate-smart approaches for the sector. Progress of fisheries and aquaculture towards climate-smart approach.
Tuesday 14 May 2024 (Lecture 6 hrs)	Field trip to visit the Sinmana Farmstay, the largest oyster farm in Thailand. Listen to the best practice and smart fisheries.
Wednesday 15 May 2024 (Lecture 6 hrs)	Capacity development for climate-smart agriculture. Assessment, monitoring and evaluation on climate-smart agriculture projects
Thursday 16 May 2024 (Lecture 6 hrs)	Participants write a project proposal on the knowledge of climate-smart agriculture from the workshop and show how to implementation climate-smart agriculture in your country.
Friday 17 May 2024 (Lecture 6 hrs)	Participants present climate-smart agriculture project. Each participant will have 15 min oral presentation with 15 min for questions and answers. Closing ceremony and Farewell Party at Walailak Park

5.2 Practices

The course contains lectures, exercises, study visits and group work. Oral and written presentation of a project is included.

5.3 Study Trips/Field Trips

1. Siam ruby pomelo farms
2. Mangosteen Orchards
3. Sinmana Farmstay

Day	Field trips/location/date/objectives
Saturday 4 May 2024	Cultural tour in Nakhon Si Thammarat. Visit Nakhon Si Thammarat

	National Musuem, tasting local foods, watching local puppet museum and cultural show, enjoy local ways of life and buying some local handmade arts and crafts.
Sunday 5 May 2024	Sightseeing at Khanom beach, long tailed boat ride, Indo-pacific dolphin and Fish spa
Friday 10 May 2024	Field trip to Siam Ruby Pomelo and Mangosteen smart farming. Observe good practices in how to manage soil, manage water, fertilizer, pest management, deploying sensors technology in the farm for best product quality.
Saturday 11 May 2024	Visit the Royal-initiated Pak Phanang River Basin Development Project and Royal Residential Hall of Pakpanang. This project aims to resolve the deterioration of the naturally fertile Pak Phanang River basin. Visit local Nipa farm, and their way of life. Take a boat trip to the Gulf of Thailand to see the local fisheries and watching sunset over the Gulf of Thailand.
Sunday 12 May 2024	Jedi Temple, Yangyai Temple, Sichon Beach
Tuesday 14 May 2024	Field trip to visit the Sinmana Farmstay, the largest oyster farm in Thailand. Listen to the best practice and smart fisheries.

5.4 Advance Assignments

5.4.1 Country Report

5.4.1.1 Participants are required to submit a country report together with an Application Form and present a country report during the workshop.

5.4.1.2 Country report should include these followings

Topics: general information of the country, historical background of the climate-smart agriculture of the country, existing laws and regulations concerning the climate-smart

agriculture, existing problems in the applicants' section, future program/project on the climate-smart agriculture, and expectation for the training course.

Materials: statistical data/data/figures are required where it is applicable.

Length: 3-5 A4 pages, Times News Roman font 12 points, single space

Dateline: submit a country report form together with an Application Form 2 months before the workshop starts.

Country Report Form: see appendix A

5.4.2 Reading Assignment

Cambridge University (2013). Climate Change: Action, Trends and Implications for Business.

Climate-Smart Agriculture Manual for Zimbabwe. (2017). Climate Technology Centre and Network, Denmark.

IISD, UNITAR & UNEP. (2009). IEA Training Material: Vulnerability and Climate Change Impact Assessment for Adaptation.

IPCC. (2013). Climate Change 2013. The Physical Science Basis -Summary for Policymakers.

OECD. (2009): Guidance on Integrating Climate Change Adaptation into Development Cooperation.

UNEP. (2009). Climate Change Science Compendium

UNEP. (2009). Climate in Peril, a Popular Guide to the Latest IPCC Report.

UNEP & UNDP. (2011). Mainstreaming Climate Change Adaptation into Development

Planning: A Guide for Practitioners. UNFCCC. CGE Climate Change Training Materials.

UNFCCC. (2008). Compendium on Methods and Tools to Evaluate Impacts of, and Vulnerability and Adaptation to, Climate Change.

UNFCCC. (2006). UNFCCC Handbook.

UNFCCC & UNEP. (2002). Climate Change Information Kit.

World Bank Report. (2012). Turn Down the Heat.

World Meteorological Organization. (2012). Greenhouse Gas Bulletins.

5.4.3 Project Assignment

Day	Project Assignment
Thursday 16 May 2024	Participants write a project proposal on the knowledge of climate-smart agriculture from the workshop and show how to implementation climate-smart agriculture in your country.
Friday 17 May 2024	Participants present climate-smart agriculture project. Each participant will have 15 min oral presentation with 15 min for questions and answers.

5.4.4 Others

Participants should bring a computer notebook and information that is relevant to climate-smart agriculture project in your country.

6. Participants' Criteria

Applicants must fulfill the following requirements:

- Be nominated by their respective governments
- Education: BSc, Master degree or PhD degree in Agriculture and related areas. Ministry of Agriculture, provincial department and local authorities; Environmental managers in private sector and civil society organizations; Faculty, researchers and students; farmers and Interested citizens
- Language: proficiency in English (speaking, reading and writing)

Walailak University is expected to have a various and flexible participants from all developing countries around the globe who are interested in training on climate smart agriculture. The course provides clear, concise and up-to-date information for anybody interested in obtaining a general understanding about climate smart agriculture. The course should be of particular interest to the following audiences: Civil servants in national ministries, provincial departments and local authorities; Environmental managers in private

sector and civil society organizations; Faculty, researchers and students; farmers and Interested citizens.

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

The type of assessment to be used will involve continuous both formative and summative assessments. The Assessment tools include some of the following: projects, assignments, theoretical exams, practicals field trials, using the science laboratory and computer labs, field attachment and participatory assessment e.g. presentation to stakeholders farmers /students.

8. Venue:

Workshop location: Walailak University, Nakhon Si Thammarat, Thailand

Accommodation: Walailak Hospitality Center in Nakhon Si Thammarat, Thailand

9. Expected Results:

The workshop should enable trainees to:

1. Demonstrate an in-depth understanding of Climate Smart Agriculture
2. Promote technical skills for a transition to a greener economy
3. Conduct cutting edge climate smart agriculture Research and/or activities in their countries
4. Think, communicate, cooperate and solve problems from interdisciplinary perspectives on climate smart agriculture issues adequately
5. Promote social innovations and practices for climate smart agriculture in their countries
6. Formulate ethical problems and clearly communicate possible solutions orally and in writing at the appropriate levels for a given audience

10. Organization/Institution:

Implementing Agency:

School of Science, Walailak University
222 Thasala, Nakhon Si Thammarat 80161 Thailand
Tel: +66-075-672005-6, Fax: +66-075-672004

Contact Person

(1) Assoc. Prof. Dr. Krisanadej Jaroensutasinee (Sensors and Smart Agriculture expert)

School of Science, Walailak University, email: krisanadej@gmail.com

(2) Assoc. Prof. Dr. Mullica Jaroensutasinee (Data Analysis expert)

School of Science, Walailak University, email: mullica.jn@gmail.com

Present Facilities

1. Staff

School of Science, Walailak University has 52 faculty members with more than 90% PhD. degree and 17 academic staff to organize this workshop as lectures and supporting staff. In addition, we also invite 3 faculty members from School of Agriculture Science to give some special lectures on agriculture.

2. Training Materials/Equipment Availability

Walailak University has a modern centralized laboratory and equipments, workshop participants will be trained in the modern laboratory and plenty of equipments required by the workshop.

3. Accommodation

Participants will be staying at the Walailak Hospitality Center. In-Room Facilities with 24/7 Service to ensure your enjoyable and comfortable, free Shuttle service within campus (upon requested), Laundry Service, Free WiFi internet, Air Conditioned, Television (Cable TV), Mini Refrigerator, Water Heater Shower machine, Hair Dryer, Toiletry included shampoo, soap, shower cap, bath & hand towels, and cotton buds, Towels and Complimentary Drinking water (2 bottles per day).

Collaborative Organization

1. School of Science, Walailak University
2. School of Agricultural Science, Walailak University
3. Smart Siam ruby pomelo farms
4. Smart Mangosteen Orchards
5. Sinmana Farmstay

11. Expenditure/Funding

Thailand International Cooperation Agency (TICA)

Government Complex, Building B (South Zone), 8th Floor,
Chaengwattana Rd., laksi District, Bangkok 10210 THAILAND.

Website: www.tica.thaigov.net

Email: aitc@mfa.go.th

Schedule for the Training Programme:

Course Schedule "Climate Smart Agriculture: Smart Farming Practices"

29 April-17 May 2024

Period/Topic	Time	Content	Lecture (hrs)	Practices (hrs)	Speaker	Note
Day 1:						
Monday 29 Apr 2024	8.00-9.00	Registration				
	9.00-10.00	1.Opening Ceremony with Special talk by Prof. Dr. Sombat Thamrongthanyawong, the President of Walailak University on “Climate Smart Agriculture, the way Walailak University moving forward”2. Remarks to participants By Director, General of Thai International Cooperation Agency (TICA) 3. Presentation of TICA	1		WU CIA	
	10.00-10.30	Photo session				
	10.30-12.00	The presentation of Climate Smart Agriculture from participants Orientation and Pre-test		1.5	Assoc. Prof. Dr. Mullica	
	12.00-13.00	Lunch				
	13.00-15.00	Sharing and knowing each other : Participants present their country reports on the climate-smart agriculture in their country		2	Assoc. Prof. Dr. Mullica	
	15.00-17.00	Walailak University Campus Tour			CIA staff	

Day 2:						
Tuesday 30 Apr 2024	8.00-12.00	Why Climate-smart agriculture? Food security and climate change.	4		Assoc. Prof. Dr. Mullica	
	12.00-13.00	Lunch				
	13.00-17.00	More efficient and resilient systems. Increase systemic efficiency and resilience: policies, institutions finances. Climate smart agriculture includes proven practice techniques: 1.crop rotation, 2.intercropping	4		Assoc. Prof. Dr. Mullica	
Day 3:						
Wednesday 1 May 2024	8.00-12.00	Drone mapping technology for monitoring crops and soil fertility.	4		Assoc. Prof. Dr. Krisanadej	
	12.00-13.00	Lunch				
	13.00-17.00	Hand-on Drone mapping technology for smart agriculture management		4	Assoc. Prof. Dr. Krisanadej	
Day 4:						
Thursday 2 May 2024	8.00-12.00	1.Agroforest, 2.Mulching, 3. Agriculture and green house gas	4		Assoc. Prof. Dr. Mullica	
	12.00-13.00	Lunch				
	13.00-17.00	Assessing risk, preparing responses, Water management for climate change mitigation	4		Assoc. Prof. Dr. Mullica	
Day 5:						
Friday 3 May 2024	8.00-12.00	Overview of Sufficient Economy Philosophy (SEP)	4		Dr. Jintanee	

	12.00-13.00	Lunch				
	13.00-17.00	Examples of SEP best practices in Agriculture	4		Dr. Jintanee	
Day 6:						
Monday 6 May 2024	8.00-12.00	Smart fertilization, controlled-release formulations,	4		Assoc. Prof. Dr. Somsak	
	12.00-13.00	Lunch				
	13.00-17.00	Higher levels of nutrients reach the crops, leading to higher yields with less fertilizer.	4		Assoc. Prof. Dr. Somsak	
Day 7:						
Tuesday 7 May 2024	9.00-12.00	Soils management for climate-smart agriculture. Soil health, key functions and soil: plant-water interrelations.	4		Assoc. Prof. Dr. Somsak	
	12.00-13.00	Lunch				
	13.00-17.00	Challenges of climate change, adaption, mitigation and enhancing resilience to soils. Successful examples of soil management practices for climate-smart agriculture with a focus on resilience	4		Assoc. Prof. Dr. Somsak	
Day 8:						
Wednesday 8 May 2024	8.00-12.00	Climate smart agriculture innovative practices on weather forecasting	4		Assoc. Prof. Dr. Krisanadej	
	12.00-13.00	Lunch				
	13.00-17.00	Climate early-warning systems and climate-risk insurance.	4		Assoc. Prof. Dr. Krisanadej	

Day 9:						
Thursday 9 May 2024	9.00-12.00	Climate smart agriculture innovative practices using sensor technology	4		Assoc. Prof. Dr. Krisanadej	
	12.00-13.00	Lunch				
	13.00-17.00	Climate smart agriculture innovative practices using IoT technology	4		Assoc. Prof. Dr. Krisanadej	
Day 10:						
Friday 10 Feb 2024	8.00-12.00	Field trip to Siam Ruby Pomelo smart farming. Observe good practices in how to manage soil, manage water, fertilizer, pest management, deploying sensors technology in the farm for best product quality.		4	Assoc. Prof. Dr. Somsak Assoc. Prof. Dr. Krisanadej Assoc. Prof. Dr. Mullica	
	12.00-13.00	Lunch				
	13.00-17.00	Field trip to Durian and Mangosteen smart farming. Observe good practices in how to manage soil, manage water, fertilizer, pest management, deploying sensors technology in the farm for best product quality.		4	Assoc. Prof. Dr. Somsak Assoc. Prof. Dr. Krisanadej Assoc. Prof. Dr. Mullica	
Day 11:						
Monday 13 May 2024	8.00-12.00	Climate-smart fisheries and aquaculture. Climate-smart approaches. Practical themes for developing climate-smart fisheries and aquaculture.	4		Assoc. Prof. Dr. Krisanadej	

	12.00-13.00	Lunch at				
	13.00-17.00	Strategic climate-smart approaches for the sector. Progress of fisheries and aquaculture towards climate-smart approach.	4		Assoc. Prof. Dr. Krisanadej	
Day 12:						
Tuesday 14 May 2024	8.00-17.00	Field trip to visit the Sinmana Farmstay, the largest oyster farm in Thailand. Listen to the best practice and smart fisheries.		8	Team	
Day 13:						
Wednesday 15 May 2024	8.00-12.00	Country report		4	Team	
	12.00-13.00	Lunch				
	13.00-17.00	Capacity development for climate-smart agriculture. Assessment, monitoring and evaluation on climate-smart agriculture projects		4	Team	
Day 14:						
Thursday 16 May 2024	8.00-12.00	Participants write a project proposal on the knowledge of climate-smart agriculture from the workshop and show how to implementation climate-smart agriculture in your country		4	Team	
	12.00-13.00	Lunch				
	13.00-17.00	Proposal presentation.		4	Team	
Day 15:						
Friday 17 May 2024	8.00-12.00	Participants present climate-smart agriculture project.		4	Assoc. Prof. Dr.	

		Each participant will have 15 min oral presentation with 15 min for questions and answers.			Mullica	
	12.00-13.00	Lunch				
	13.00-14.00	Workshop Reflection and knowledge sharing		1	Assoc. Prof. Dr. Mullica	
	14.00-16.00	Post-test and evaluation			Assoc. Prof. Dr. Mullica	
	16.00-17.00	Certificate, Closing ceremony and Farewell Party at Walailak Park				
			69	44.5		
		Total	113.5			