



**SURANAREE UNIVERSITY OF TECHNOLOGY**

# **GLOBAL COURSE**

**Online / On-site / Hybrid**

**Trimester 1 of Academic Year 2023**

**● BIOLOGY ● ENGINEERING ● INNOVATIVE AGRIPRENEUR ● MEDICINE**

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## SCI04 1001 (4 credits) Principles of Biology I (Section 3)

### COURSE DESCRIPTION

The unity of life, organization of life, biological concepts, the role of chemistry in biology, cell and metabolism, the genetic basis of life, evolution, the diversity of life, structure and function of plants, structure and function of animals, ecology, and behavioral ecology

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## SCI04 2046 (1 credit) Introduction to Silver Nanoparticles

### COURSE DESCRIPTION

Definition and properties of silver nanoparticles, simple syntheses of silver nanoparticles via chemical and biological approaches, biological applications of silver nanoparticles, demonstration of simple synthesis method of silver nanoparticles, and simple evaluation of silver nanoparticle production via the use of a spectrophotometer.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## ENG202020 (4 credits) Global Project Based Learning 1

### COURSE DESCRIPTION

Students form multi-disciplinary group with different institution students or international students to create project which contribute to basic problem of industry, department, organization, environment, or social under supervising of project supervisor. Practicing design thinking skill, analyze problem, define problem, idea presentation, creating, test and present prototype, apply design thinking process with assigned multi-disciplinary project. All activities were conducted based on English language.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## ENG203020 (4 credits) Global Project Based Learning 2

### COURSE DESCRIPTION

Students form multi-disciplinary group with different institution students or international students to create project which contribute to basic problem of industry, department, organization, environment, or social under supervising of project supervisor. Practicing design thinking skill, analyze problem, define problem, idea presentation, creating, test and present prototype, apply design thinking process with assigned multi-disciplinary project. All activities were conducted based on English language.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## ENG204020 (4 credits) Global Project Based Learning 3

### COURSE DESCRIPTION

Students form multi-disciplinary group with different institution students or international students to create project which contribute to basic problem of industry, department, organization, environment, or social under supervising of project supervisor. Practicing design thinking skill, analyze problem, define problem, idea presentation, creating, test and present prototype, apply design thinking process with assigned multi-disciplinary project. All activities were conducted based on English language.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**CWI04 4101 (8 credits)**

## **International Cooperative and Work-Integrated Education I**

### COURSE DESCRIPTION

Students are required to perform full-time professional or academic work as a temporary employee at a workplace for a period of at least 16 consecutive weeks. During the work term, progress must be reported to the job supervisor and the school supervisory as agreed periodically. Upon completion of the work, students must prepare and submit an operational report and then present to the school. The achievements of student are assessed by job supervisors and school supervisors.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 1001 (1 credit)**

**Introduction to agricultural inspiration and  
innovation**

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## IAT31 1101 (3 credits) The food journeys

### COURSE DESCRIPTION

Backward journeys of foods in the market. The course covers how the foods arrived to end users from the beginning in farms and before, in a backward sequence, and how science, technology are involved. This includes, for example, how foods are stored on shelf, management of the foods on shelf, delivery of the food products from the factories, food production in the industrial scale, preparation and preservation of the raw materials for the food production, delivery of the raw materials from farm to the factories, production of animals and crops, harvesting processes, how animal and crop breeds are obtained. The emphasis is also on how the food could be obtained from multiple production approaches such as safe agriculture and organic agriculture. The course highlights the fact that science and technology is in all the processes and management. The emphasis is also in leading the student to identify opportunities and risks in the food supply chains and the food businesses. Evolution of the technology and innovation involved, the effects of the global changes on food business and the relevant regulations are covered.

This course is a brief introduction to the 4 years program.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 1104 (3 credits)**

## **Introduction to technology in food preservation**

### COURSE DESCRIPTION

This course will focus on three areas as follow: 1) Food preservation using low heat (mild process) such as chilling or freezing, the reduction of water activity, drying, concentration and hurdle technology. 2) Food preservation using heat treatment such as pasteurization, cooking and blanching. 3) Food prevention using packaging.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 1206 (3 credits)**

## **Art of storytelling**

### COURSE DESCRIPTION

This course will develop students to understand communication skills in various ways, focusing on learning the principles and procedures of communication. In order for students to be able to effectively convey the content or message they need in a complete process both online and on ground. Not only develop students to be media creators but also provides an understanding of the dimensions of design, creativity, and distribution by the application of information technology and computer.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 1209 (3 credits)**

## **Philosophy of life**

### COURSE DESCRIPTION

This course offers students to understand themselves and others and are able to openly survey their needs or emotions, as well as can contemplate their meaningful life and have the patience to find life values and internal needs. Moreover students will know and be clear about their life goals, can see themselves connected to society, communities and others. In particular, they are able to manage and use their potential to achieve their own needs. By learning through the process and various tools in terms of philosophy, psychology, literature, art, and technology to develop students to have well-being life as well as information technology and computer literacy.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 1210 (3 credits)**

## **Creativity**

### COURSE DESCRIPTION

This course focuses on improving students to apply a variety of principles and creative processes appropriately. Including, to give students the fundamental skills such as leadership skills, team management, strategy planning, problem solving, decision making, project management, time management, stress management, creativity tools, learning skills. Students will learn how to create projects through various tools, including Brainstorming, Brainwriting, Reverse brainstorming, Starbursting, the Charette procedure, Crawford's Slip Writing method, Round-Robin, Rolestorming, Metaphorical thinking, SEIQ, Reframing Matrix, SCAMPER, Stealth Innovation, Beyond Creativity, TRIZ, Kano Model Analysis, Design Thinking, Disney Model, Doblin's Innovation, Six Thinking Hats, OODA loop, etc. As well as learners will learn by project-based with aid of information technology and computer.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## IAT31 2213 (3 credits) Listening, speaking, reading, writing and presentation skills in communication

### COURSE DESCRIPTION

The subject offers the effective listening, speaking, reading, writing and presentation skills to the learner who is able to acquire material properly and deliver what they want. Students will learn deep listening skill, the World cafe conversation, the Dialogue conversation, the writing skills for various contexts and also the communication and presentation skill in different situations by the application of information technology and computer.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## IAT31 2216 (3 credits) Aesthetics

### COURSE DESCRIPTION

This course offers a diverse set of methods of thinking and perspectives on the value of aesthetics in various contexts, including understanding the aesthetics in philosophy, society, culture, psychology and evolution. Through different examples of art such as literature, film, fashion, painting, music, taste, performance, visual art, experimental works, and conceptual arts by focusing on the learners' ability to understand, evaluate, criticize, value, analyze, make decisions, and transfer ideas through initial criteria, such as coherence, complexity, intensity, and originality field trips, information technology and computer for presentation.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 2321 (3 credits)**

## **Crop production and management of plant**

### COURSE DESCRIPTION

The system of crop production and agricultural standard, plant growth and development, plant varieties and plant breeding, management of soil, water and plant nutrients, plant pest controls, postharvest managements and field trip at private sector.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 2322 (3 credits)**

## **Animal production systems and its products**

### COURSE DESCRIPTION

Overview of the economic importance of the animal products industry. Study the segment of chain of animal production. Overview of animal production in the national, regional and global level, challenges, and opportunities of enterprises (large, medium, small). Products from animal sources including meat, milk, egg and its by-products from animal industry. Ideas for using technology and innovation to improve animal product's quality.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 3324 (3 credits)**

## **Entrepreneurship and innovation in agri-food business**

### COURSE DESCRIPTION

Learn about entrepreneurship, innovation and business technology in agriculture and food, attitudes and motivations of business- and social-entrepreneurs, characteristics of a successful entrepreneur, the process of starting a new business, business opportunities in agriculture and food, Business idea presentation, and problems of new businesses.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## IAT31 3325 (3 credits) Design thinking for innovation

### COURSE DESCRIPTION

Learn about new product/service design and development, customer-centric design, understanding the problems and needs of customers/stakeholders, identification of problems and opportunities for innovation development, learn and develop the thinking process in new product/service design, screening and evaluation of concept design and development of prototype products/services, and market testing guidelines.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 3326 (3 credits)**

## **Market research and opportunity analysis in agri-food business**

### COURSE DESCRIPTION

Analysis of future trends in agriculture and food businesses. Study of the industry situation and value chain of agricultural-food businesses. Analysis of the business opportunities of agricultural-food innovation, market research design, data collection, market research tools and methods. Analyzing both quantitative and qualitative data to understand customer problems/needs and confirmations.  
Research presentation.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**IAT31 3327 (3 credits)**

## **Intellectual property for agri-food business**

### COURSE DESCRIPTION

Concepts and principles of intellectual property management, patent investigation and discovery, laws and guidelines on the protection of intellectual property. Request to exercise, assess eligibility, and valuation of intellectual property. Guidelines for the use of intellectual property works and generate returns on intellectual property.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 7001 (1 credit) Concept in Translation Medicine

### COURSE DESCRIPTION

Basic concept of bringing basic science, medical science, medical laboratory science, develop of research and invention into innovation, application for health promotion, prevention, diagnosis, treatment, prognosis, and rehabilitation, knowledge, and innovation transfer to care one health service system.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 7002 (3 credits) Basic Science and Clinical Science

### COURSE DESCRIPTION

Meaning and important principle of basic science and medical science, cells' structure (tissue), control and homeostasis of human body, reversible of the cells, relationship of basic medical science and clinical science, advance medical science, pathophysiology of the diseases.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**MED51 7003 (2 credits)**

## **Ethic and Methodology in Translational Medicine**

### COURSE DESCRIPTION

Ethical issues in human and animal research, statistical methods in Translational Medicine, methodology, appraisal, generate research question, validity of the data, proposal writing, research design, population and sampling, sample size and sample selection, produce tools and data collection, confidentiality, evaluation, statistical analysis and clinical sign, and academic writing.

**HYBRID** →

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**23**



# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 7004 (1 credit) One Health Research Translation I

### COURSE DESCRIPTION

Translational research of basic science, medical science, medical laboratory science for solving local health problem (health promotion, prevention, diagnosis, treatment, and management and rehabilitation) in one health platform.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 7005 (1 credit) One Health Research Translation II

### COURSE DESCRIPTION

Translational research of basic science, medical science, and medical laboratory science for clinical practice (health promotion, prevention, diagnosis, medical intervention, and management and rehabilitation) in one health platform.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 8001 (1 credit) Concept in Translation Medicine

### COURSE DESCRIPTION

Basic concept of bringing basic science, medical science, medical laboratory science, develop of research and invention into innovation, application for health promotion, prevention, diagnosis, treatment, prognosis, and rehabilitation, knowledge, and innovation transfer to care one health service system.

**HYBRID** →

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 8002 (3 credits) Basic Science and Clinical Science

### COURSE DESCRIPTION

Meaning and important principle of basic science and medical science, cells' structure (tissue), control and homeostasis of human body, reversible of the cells, relationship of basic medical science and clinical science, advance medical science, pathophysiology of the diseases.

**HYBRID** →

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

**MED51 8003 (2 credits)**

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 8004 (1 credit) One Health Research Translation I

### COURSE DESCRIPTION

Translational research of basic science, medical science, medical laboratory science for solving local health problem (health promotion, prevention, diagnosis, treatment, and management and rehabilitation) in one health platform.

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# GLOBAL COURSE

Trimester 1 of Academic Year 2023

## MED51 8005 (1 credit) One Health Research Translation II

### COURSE DESCRIPTION

Translational research of basic science, medical science, and medical laboratory science for clinical practice (health promotion, prevention, diagnosis, medical intervention, and management and rehabilitation) in one health platform.

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