DOCTORAL AND MASTER OF SCIENCE PROGRAM

IN FOOD SCIENCE

Department of Food Science and Technology

Graduate School

Kasetsart University
DOCTORAL AND MASTER OF SCIENCE PROGRAM IN FOOD SCIENCE

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ACADEMIC INSTITUTION:

Department of Food Science and Technology,
Faculty of Agro-Industry,
Kasetsart University, Bangkok, Thailand
http://www.agro.ku.ac.th/english/

OBJECTIVES:

To produce Ph.D. or M.S. graduates through state of the art basic or applied research in the area of food science, food safety and related food disciplines.

To enroot international food scientists with perspectives and abilities in research capacity which promote academic advancement and problem based-solving in food science and food industry.

To contribute internationally-valued research projects and to distribute knowledge to industries and other interested parties.

COURSE SYNOPSIS & METHODOLOGY:

Food science and technology study at Kasetsart University has been in place since 1964 as the first program in Thailand and is considered one of the best food science programs in South East Asia. Internationally recognized, the department takes pride in the rigorous scientific curriculum. Master’s degree graduates with in-depth basic and practical food science knowledge are trained to serve their own societies and countries.

Food science and technology graduates are major driven forces that contribute to the success of Thai food industry. Range of knowledge and researches are covered all aspects of food science and technology, e.g., food chemistry, food safety, food process and product innovation. Advance in food research study is enhanced by close link to food industry, both local and international company, and through extensive research collaboration network. Research exchange with most prominent food science institution and University in Europe, USA and Canada and Asia is available with special arrangement between professors involved. Talented international students are our priority for student selection.
Ph.D. Program: There are 2 programs available.

Program 1.1 focuses on research capacity building with a minimum of 52 credits research thesis. Four seminars and at least 1 research publication in a recognized international scientific journal is required.

Program 2.1 involves student with 12 credits course works plus a minimum of 36 credits research thesis. In addition to seminars and research publication, a grade point average (GPA) of B (3.0 out of 4.0 score) is required for graduation according to Kasetsart graduate school requirement.

M.S. Program: There are 2 programs available.

Program A1 focuses on research capacity building with a minimum of 36 credits research thesis. Two seminars and 1 research publication in a recognized scientific journal is required.

Program A2 involves student with 18 credits course works plus a minimum of 18 credits research thesis. In addition to seminars and research publication, a grade point average (GPA) of B (3.0 out of 4.0 score) is required for graduation according to Kasetsart graduate school requirement.

Academic year: Two semesters system start in August-December, and January-May, with a summer thereafter. 1 credits system is equivalent to 1 hour per week of total 15 weeks in a semester.

COURSE CONTENT / STUDY TOPIC:

Selected course works will be offered during a semester. Example are: Advanced food science, Advanced food processing, Colloidal systems in foods, Hygienic problems of foods, Carbohydrate in foods, Chemistry of food flavor and analysis, The application of physical chemistry to food science, Lipid in foods, Protein in foods, Enzyme in foods, Food additives, Food Toxicology, Nutrition in Food Science.

Thesis research topics are in the area of industrial needs and academic advancement such as:

Food safety: novel sanitizers, microbial stress-response, cell-to-cell communication, biosensors and rapid method, food risk assessment, food mycotoxins, food safety and additives.

Food colloids and biopolymers: fabrication of food structure from biopolymer (mainly protein, polysaccharides and starches) with desirable characteristics at micro- and nano-length scales from the approaches of physico-chemistry and food physics.

Phytochemistry and functional food: extraction, purification and modification of functional and health benefit compounds from local plants, with an emphasis on polyphenolics, terpenoids, flavonoids and phytosterols.

Food flavor: aroma active compounds in Thai and Asian ethnic foods and ingredients, food interactions and processing factors affecting the flavor of traditional Thai food products.
Food process engineer and simulation: food process optimization, modeling and simulation, design of food processes and equipments.

Controlled-release delivery systems for bioactive compounds: antioxidants, anticancers and immunopromotors to be micro- or nano-encapsulated, the understanding of the self-assembling process of biomolecules and the interactions between core and encapsulating materials.

Rice and rice products: modified starch, starch-protein/lipid interactions, functional properties of rice bran protein, $\gamma$-amino butyric acid, oryzanol, application in value-added starch and rice-based products.

Other research area includes: alternative ingredients and additives for food industry, freshness preservation of food products, food chemical toxicology, drying technology, physico-chemical properties and processing of confectionery products, frozen food process and product development, utilization and value-added of food industry by-product, postharvest technology

QUALIFICATIONS:

Ph.D. Program: Master of Science degree in food science and technology or equivalent of M.S. in related fields, i.e., biotechnology, nutrition, pharmaceutical.

M.S. Program: Bachelor of Science degree in food science and technology or equivalent of B.S. in related fields, i.e., biotechnology, nutrition, pharmaceutical.

Competency in English communication and writing is required for application. English proficiency proof is required for graduation according to Kasetsart University graduate school. Current requirement is IELTS score not less than 5.0, or TOEFL (Paper-based Test: Section 2 and 3, score not less than 45 for each section, and Total score not less than 450) (Computer-based Test: Section 2 score not less than 14, section 3 score not less than 13, and Total score not less than 133), (Internet-based Test: Total score not less than 45). Alternatively, students must take and pass the English course arranged by Kasetsart University graduate school.

CONTACT PERSON:

Dr. Kullanart Tongkhao by email at fagiknt@ku.ac.th
Food Science (M.S. & Ph.D.)

Introduction

Kasetsart University offered courses in Food Science since 1964. It was the first academy to offer a Food Science degree program in Thailand. In 1980, the department evolved and was renamed the Department of Food Science and Technology. Since then, over 1,500 graduates have completed their studies from the Department and are serving in technical and administrative positions at food-related industries as well as leading academic and research institutions.

Master’s Program

Plan A Type A 1

Total credits minimum 36 credits

Curriculum structure

a. Major courses minimum 2 credits (audits)
   - Seminar 2 credits (audits)

b. Thesis minimum 36 credits

Course requirements

a. Major courses minimum 2 credits (audits)
   - Seminar 2 credits (audits)

01052597 Seminar 1, 1, 1, 1

b. Thesis minimum 36 credits

01052599 Thesis 1-36 credits

Plan A type A 2

Total credits minimum 36 credits

Curriculum structure

a. Major courses minimum 18 credits
   - Seminar 2 credits
   - Compulsory course 5 credits
   - Electives minimum 11 credits

b. Thesis minimum 18 credits

Course requirements

a. Major courses minimum 18 credits
   - Seminar 2 credits

01052597 Seminar 1, 1
- Compulsory course  
  01052517 Advanced Food Science  3(3-0-6) 
  01052591 Advanced Research Methods in Food Science  2(1-3-4) 
- Electives  minimum  11 credits 
  b. Thesis  minimum  18 credits 
  01052599 Thesis  1-18 credits 

**Doctoral Program**

**Plan 1.1**

Total credits  minimum  48 credits 

**Curriculum structure**

a. Major courses  minimum  4 credits (audits) 
  - Seminar  4 credits (audits) 
  b. Thesis  minimum  48 credits 

**Course requirements**

a. Major courses  minimum  4 credits (audits) 
  - Seminar  4 credits (audits) 
  01052697 Seminar  1, 1, 1, 1 
  b. Thesis  minimum  48 credits 
  01052699 Thesis  1-48 credits 

**Plan 2.1**

Total credits  minimum  48 credits 

**Curriculum structure**

a. Major courses  minimum  12 credits 
  - Seminar  4 credits 
  - Compulsory course  3 credits 
  - Electives  minimum  5 credits 
  b. Thesis  minimum  36 credits 

**Course requirements**

a. Major courses  minimum  12 credits 
  - Seminar  4 credits 
  01052697 Seminar  1, 1, 1, 1
- Compulsory course  
  01052691 Advanced Research Methods in Food Science  3(2-3-6)

- Electives minimum  5  credits
b. Thesis minimum  36  credits
  01052699 Thesis  1-36  credits
### Course Description (M.S.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits (L-T-P)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01052511</td>
<td>Cereal Chemistry</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>The formation of cereal grains, chemical properties and analysis of chemical contents of various cereals and their products. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052512</td>
<td>Carbohydrate in Foods</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Types, properties and contents of carbohydrate in foods, sources of carbohydrates. Chemical and physical changes during processing and storage, modification of starch for industrial uses. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052513</td>
<td>Lipid in Foods</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Property, composition, and function of lipids in foods, methods used for analysis of lipid composition, lipid separation and modification, lipid deterioration during production process and storage.</td>
<td></td>
</tr>
<tr>
<td>01052514</td>
<td>Protein in Foods</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Chemical properties and structure of protein; changes during processing; important proteins of various food sources; functional properties and effects of modification; quality evaluation of protein. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052515</td>
<td>Enzyme in Foods</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td>01052516</td>
<td>Food Additives</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Types of food additives and their applications in food, effect of food additive on quality and food preservation. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052517</td>
<td>Advanced Food Science</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td></td>
<td>Advanced and new techniques in analysis and food science research.</td>
<td></td>
</tr>
<tr>
<td>01052518</td>
<td>Chemistry of Food Flavor and Analysis</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Chemical and physical properties of flavoring agents. Flavor formation in foods. Extraction techniques of flavoring agents used in sample preparation for food research. Chemical analysis techniques for substance identification. Sensory techniques for investigation of food flavoring agents. Co-relationships between data obtained from instrument and sensory tests.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
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</tr>
<tr>
<td>01052521</td>
<td>Advanced Food Processing</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Advanced Food Processing by using the new principles and techniques in food industry. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052522</td>
<td>Colloidal Systems in Foods</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>01052523</td>
<td>Food Analysis</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Principles and applications of chemical, physical and sensory methods in food analysis.</td>
<td></td>
</tr>
<tr>
<td>01052524</td>
<td>Biosensor Technology in Food Industry</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Principles of biosensor monitoring, biosensor fabrication, immobilization of biological components, transducer types and transduction mechanism, flow injection analysis and on-line measurement, design of biosensor system in food industry.</td>
<td></td>
</tr>
<tr>
<td>01052531</td>
<td>The Application of Physical Chemistry to Food Science</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Application of physical chemistry to food processing, storage, and changes in foods during processing and storage. Roles of water, phase relationships, emulsions and foams, rheological properties, and temperature to foods.</td>
<td></td>
</tr>
<tr>
<td>01052541</td>
<td>Food Toxicology</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Naturally occurring food toxins from plant and animal origins, microbial toxins, environmental toxins, food processing-or packaging derived toxins, food allergens, and current food regulation regarding food toxicants. Principles and analysis methods of food toxicants and allergens.</td>
<td></td>
</tr>
<tr>
<td>01052542</td>
<td>Hygienic Problems of Foods</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Hygienic specification of foods, microorganism and injured cell caused hygienic problems of foods on hygienic of food plant and exported food products, enumeration of microorganism using the modern method and quality assurance of food industry. Case study. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052543</td>
<td>Nutrition in Food Science</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Impact of nutrients on food metabolism. Dietary consumption habit on consumer health and chronic noncommunicable diseases. Effects of over-consumption of natural foods or synthesized vitamins and minerals. Nutrition qualities of food products as affected by processing, light, heat and pressure.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>01052544</td>
<td>Nutrition in Food Processing</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td>01052545</td>
<td>Quality Management in Food Industry</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Quality system and principle of quality management in food industry. Authority and responsibility of personnel at each level in organization. Policy management. Standard of operation procedure. Use of quality control tools and statistics in decision making and problem solving. Production control in food industry.</td>
<td></td>
</tr>
<tr>
<td>01052546</td>
<td>Health Foods and Nutraceuticals</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td></td>
<td>Classification of health foods and nutraceuticals, dietary fibers, antioxidants, prebiotics, probiotics, omega-3 fatty acids, and phenolic compounds, including their mechanisms of action, analytical methods, and current regulations.</td>
<td></td>
</tr>
<tr>
<td>01052591</td>
<td>Research Methods in Food Science</td>
<td>2(1-3-4)</td>
</tr>
<tr>
<td>01052592</td>
<td>Applied Statistics for Food Science Research</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Experimental design. Research hypothesis, measurement and hypothesis testing in food science research. Principle and application of statistical software package. Data collection. Type of data. Data input. Data analysis using multivariate statistical tools and data interpretation for food science research.</td>
<td></td>
</tr>
<tr>
<td>01052596</td>
<td>Selected Topics in Food Science and Technology</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Study on selected topics in Food Science and Technology at the master degree level. The topics are subject to changed each semester.</td>
<td></td>
</tr>
<tr>
<td>01052597</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Presentation and discussion on current interesting topics in food science at the master’s degree level.</td>
<td></td>
</tr>
<tr>
<td>01052598</td>
<td>Special Problems</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Study and research in Food Science and Technology at the master degree level and compiled into a written report.</td>
<td></td>
</tr>
<tr>
<td>01052599</td>
<td>Thesis</td>
<td>1-36</td>
</tr>
<tr>
<td></td>
<td>Research at the master degree level and compile into a thesis.</td>
<td></td>
</tr>
</tbody>
</table>
### Course Description (Ph.D.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>01052611</td>
<td>Advanced Food Analysis</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Modern methods, current techniques, and progress in various food analyses. Development and improvement of appropriate food analytical methods for specific situation. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052612</td>
<td>Advanced Food Additives</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Current research on different aspects of food additives. New food additives. Toxicological significance and use of food additives. Modern techniques in food additive analysis.</td>
<td></td>
</tr>
<tr>
<td>01052613</td>
<td>Food Materials</td>
<td>2(1-3-4)</td>
</tr>
<tr>
<td></td>
<td>Physics related to food structure creation of nutrients and food ingredients having self-assembling characteristics. Interactions and chemical bonds within food structure fabricated during processing and storage associated with materials properties of food products under the alterations of stress, strain and time. Evaluation methods of the materials property changes in food.</td>
<td></td>
</tr>
<tr>
<td>01052631</td>
<td>Physical and Engineering Properties of Biomaterials</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td></td>
<td>Structure of solid biomaterials. Physical and engineering properties of biomaterials including mechanical, surface, thermal and electrical properties. Changes of properties and testing. Phase transition of biomaterials. Case study.</td>
<td></td>
</tr>
<tr>
<td>01052661</td>
<td>Advanced Food Microbiology</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Quantitative evaluation of microorganisms in food by modern, rapid and automatic techniques. Microbiological quality assurance of food. Relationship between starter culture and quality of fermented food products. Production and storage of starter culture for food industry. Field trip required.</td>
<td></td>
</tr>
<tr>
<td>01052691</td>
<td>Advanced Research Methods in Food Science</td>
<td>3(2-3-6)</td>
</tr>
<tr>
<td></td>
<td>Advanced research methods in Food Science, preparation of research proposal, application of computer and information technology for data retrieval and data analysis. Data collection and manuscript preparation for technical presentation and group discussion with academic and food industry, technical report writing for publication in accredited journals in the Food Science area or for technical report in food industry.</td>
<td></td>
</tr>
<tr>
<td>01052696</td>
<td>Selected Topic in Food Science and Technology</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Selected topics in food science at the doctoral level. Topics are subjected to be changed each semester.</td>
<td></td>
</tr>
<tr>
<td>01052697</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Presentation and discussion in English on interesting topics in food science at doctoral level.</td>
<td></td>
</tr>
</tbody>
</table>
01052698  Special Problems  1-3
Study and research in food science at the doctoral level and compile into a report.

01052699  Thesis  1-48
Research study at the doctoral level and writing thesis.
Faculty and Research areas in Food Science and Technology Department
Faculty of Agro-Industry, Kasetsart University

Asst.Prof. Chitsiri Rachtanapun (ผศ.ดร. จิตศิริ ราชตนะพันธุ์)
Faculty code: K4028
Department of Food Science and Technology
Tel : +66 2 562-5152 E-mail : chitsiri.t@ku.ac.th
Research Areas : Natural antmicrobials, Food microbiology, Food Safety

Assoc. Prof. Chockchai Theerakulkait (รศ.ดร. โชชัย ธีรกุลเกียรติ)
Faculty code: K4014
Department of Food Science and Technology
Tel : +66 2 562-5032 E-mail : chockchai.t@ku.ac.th
Research Areas : Novel food /beverage ingredients and flavorings from rice bran and plant extract, Anti-enzyme browning agents and biologically active agents from plant extract, Enzyme in plant food processing, Processing and biochemistry of beverages from plant

Kanithaporn Vangnai (ดร. กนิษฐพร วังไน)
Faculty code: K4033
Department of Food Science and Technology
Tel : +66 2 562-5037 E-mail : kanithaporn.p@ku.ac.th
Research Areas : Food chemical toxicology, Meat technology

Kanokrat Limpisophon (ดร. กนกรัตน์ ลิมปิโสภณ)
Faculty code: K4036
Department of Food Science and Technology
Tel : +66 2 562-5219 E-mail : kriskamol.n@ku.ac.th
Research Areas : Gelatin application, Fishery product technology, Protein from marine sources, Edible film

Kriskamol Na Jom (ดร. กฤษกมล ณ จอม)
Faculty code: K4039
Department of Food Science and Technology
Tel : +66 2 562-5035 E-mail : fagikrl@ku.ac.th
Research Areas : Food Chemical Safety, Metabolomics for Food Quality and Safety

Kullanart Tongkhao (ดร. คุณาภัท ทองขาว)
Faculty code: K4037
Department of Food Science and Technology
Tel : +66 2 562-5020 ext. 5227 E-mail : fagiknt@ku.ac.th
Research Areas : Food microbiology, Food safety, Genetic engineering
Asst. Prof. Masubon Thongngam (ผศ.ดร. มาศอุบล ทองงาม)
Faculty code: K4025
Department of Food Science and Technology
Tel : +66 2 562-5152 E-mail : masubon.t@ku.ac.th
Research Areas : Food microstructure, Food polysaccharide, Polysaccharide and colloid, Starch chemistry

Assoc. Prof. Parichat Hongsprabhas (รศ.ดร. ปาริฉัตร หงสประภาส)
Faculty code: K4023
Department of Food Science and Technology
Tel : +66 2562 5043 E-mail : parichat.h@ku.ac.th
Research Areas : Food colloids and biopolymers, Food microstructure, Mixing biopolymer and its influences on food qualities, Control release of functional ingredients, Soft matter, Nutraceuticals and functional foods, Dairy technology

Pathima Udompijitkul (ดร. ปัทธิมา อุดมไพจิตรกุล)
Faculty code: K4041
Department of Food Science and Technology
Tel : +66 2562 5020 E-mail : pathima.u@ku.ac.th
Research Areas : Food microbiology, Spore-forming bacteria, Molecularbiology, Spore inactivation

Pinthip Rumpagaporn (ดร. พิณทิพย์ รัมภกาภรณ์)
Faculty code: K4035
Department of Food Science and Technology
Tel : +66 2 562-5020 ext. 5205 E-mail : fagiptr@ku.ac.th
Research Areas : Dietary fiber, Starch technology, Nutrition

Pitiya Kamonpatana (ดร.ปิติยา กมลพัฒนะ)
Faculty code: K4029
Department of Food Science and Technology
Tel : +66 2 562-5020 ext. 5208 E-mail : pitiya.n@ku.ac.th
Research Areas : Food Engineering

Assoc. Prof. Prisana Suwannaporn (รศ.ดร. ปิ่นทิพย์ สำรินทรภนันทน์)
Faculty code: K4019
Department of Food Science and Technology
Tel : +66 2 562-5038 E-mail : prisana.s@ku.ac.th
Research Areas : Physicochemical properties and rheology of rice starch, Cereal technology, Physical modification of rice starch and its maltodextrin, Retrogradation of waxy rice gel, Consumer study and new product development in foods, New product development management, Food product marketing, Applied statistic for food science research
Saipin Thanachasai (ดร. สายพิณ ทานัชฌาสัย)
Faculty code: K4032
Department of Food Science and Technology
Tel: +66 2 562-5034 E-mail: saipin.t@ku.ac.th
Research Areas: Food engineering, Food biosensor, Enzyme technology, Bioinstrumentation

Assoc. Prof. Sanguansri Charoenrein (รศ. ดร. สิรภัณฑ์ เจริญเหรียญ)
Faculty code: K4020
Department of Food Science and Technology
Tel: +66 2 562-5027 E-mail: sanguansri.c@ku.ac.th
Research Areas: Freshness preservation of frozen foods, controlling properties of starch paste and gel, Freezing preservation of foods, Enhance stability of food using physico chemical principles

Asst. Prof. Sasitorn Tongchitpakdee (ผศ. ดร. ศศิธร ตรงจิตภักดี)
Faculty code: K4026
Department of Food Science and Technology
Tel: +66 2 562-5027 E-mail: sasitorn.ch@ku.ac.th
Research Areas: Phytochemicals, natural pigments, Fruit and vegetable technology; Functional foods, Bioactive compounds in fruits, vegetables and herbs

Savitree Ratanasumawong (ดร. สาวิตรี รัตนสุมาวงศ์)
Faculty code: K40
Department of Food Science and Technology
Tel: +66 2562-5033 E-mail: fagistt@ku.ac.th
Research Areas: Mass transfer/Heat transfer in starchy food, Starchy food (Noodle, wheat flour based products), Adsorption of protein on solid surface, Food safety (Allergen)

Assoc. Prof. Siree Chaiser (รศ. ดร. สิรีย์ เชี่ยวเสรี)
Faculty code: K4017
Department of Food Science and Technology
Tel: +66 2562 5002 E-mail: siree.c@ku.ac.th
Research Areas: Flavor chemistry, Confectionery Technology

Sirichai Songsermpong (ดร. สิริชัย สงเสริมพงษ์)
Faculty code: K4005
Department of Food Science and Technology
Tel: +66 2 562-5024 E-mail: sirichai.so@ku.ac.th
Research Areas: Food engineering, Instant rice and novel process, Aseptic processing, Food safety engineering
Sudathip Sae-Tan (ดร. สุดาทิพย์ แซ่ตั้น)
Faculty code: K4042
Department of Food Science and Technology
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Research Areas: Freezing process engineering jet impingement freezing, ice nucleator, antifreeze protein, etc.

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Research Areas: Flavor chemistry, Flavor analysis by instrumental and sensory measurements, Food chemistry, Sensory science

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Research Areas: Cereal starch chemistry and technology, Relationship between starch fine structure and function properties, Properties and fine structures of modified / native rice starch, Thermoplastic starch and biobased materials

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