FACULTY OF BUSINESS ADMINISTRATION

Bachelor of Business Administration in Food Business Management
B.B.A. (Food Business Management)

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Food Business Management: Strategy for Thailand's Growth

Thailand's advantage in appropriate location and climate for cultivation reflects the resourcefulness of agricultural and husbandry products. With the combination of Thai arts and culture in creating the unique Thai foods with exotic taste which is popular among Thai people and foreigners, food business in Thailand is placed at a high rank of the most prolific business as well as generates large amount of revenue for the country. Food business is, therefore, set as a core business in Thailand's strategic plan for the national sustainable development.

Due to the growth of food business, the demands for qualified operations and management personnel in food industry and food service businesses are continuously increased. In order to meet business requirements and serve the country's need, the institute has set up a curriculum to produce potential graduates with high competence and performance in food business management.

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Highlights of the Program

- Combining art and science of management and food production/food service
- Combining theoretical studies and hands-on practices
- Teaching by expert lecturers and experienced business executives
- Collaborating with renowned companies for practical training, internship and employment opportunities

Majors

- Food Industry Business
- Food Service Business

Program Structure (138 total credit requirement)

General Education Courses 33 credits

Social Sciences	6 credits
Humanities	6 credits
Science and Mathematics	6 credits
Language	15 credits

Specific Required Courses 99 credits

Core courses	33 credits
Major required courses	54 credits
Major elective courses	12 credits

Free Elective Courses 6 credits

Core courses

- Business Analysis and Planning
- Business Finance
- Business Statistics
- Economics for Management
- Human Resources Management
- Logistics and Supply-Chain Management
- Operations Management
- Principles of Accounting
- Principles of Management
- Principles of Marketing

Major required courses

- Food Microbiology
- Food Quality Control and Shelf-Life Evaluation
- Food Safety Management and Food Laws
- Introduction to Food Science and Technology
- Nutrition
- Occupational Health and Safety

Major elective courses

Food Industry Business:
- Food Chemistry and Food Analysis
- Food Packaging Technology and Design
- Food Processing
- Special Project in Food Industry Business

Food Service Business:
- Basic Cooking Techniques
- Cooking and Beverages Management
- Restaurant Operation Management
- Special Project in Food Service Business

Internship and Practical Training:

- Year 2/Summer: Internship 1
- Year 3/Summer: Internship 2
- Year 4/Semester 1: Practical Training 1
- Year 4/Semester 2: Practical Training 2

Admission Requirements

An applicant must hold a high school diploma or a vocational certificate or equivalent from a school or institution accredited by the Ministry of Education.

Career Opportunities

- Entrepreneurs in food business
- Personnel and Executives in food production industries/food service companies
- Government Officials dealing with food business

For inquiries, please call +662-280-0551 (ext. 3263 or 3267) during official working hours, or email: ba@cdti.ac.th.

FACULTY OF DIGITAL TECHNOLOGY

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING
B. Eng. (Computer Engineering)

The Faculty of Digital Technology aims to produce graduates with the ability to think analytically as well as systematically. We center on lifelong learning processes following the royal initiative "Study and Work – Work and Study" conceptual framework.

The computer engineering program provides the basic foundations of computer field through series of theory and practical classes in basic engineering and computer engineering which includes electronics for I/O interfacing, computer organization, embedded systems, operating systems and networking, etc. Not only concepts and theories in computer area are focused, but also practical working skills. The program offers two specializations. After two years, students can pursue specializations on Internet of Things (IoT) or Data Engineering, depending on their interests. Contemporary knowledge and skill sets in Artificial Intelligence (AI), Cloud Computing, Big Data, and Smart City are also offered as electives.

Purposes of the Curriculum

1. Understand the essence of various subsystems in order to handle the complexity of large systems
2. Understand the concept of digital technology and computer system, hardware and software design, system requirements, system development and performance evaluation, and computer system maintenance
3. Possess a broad knowledge and basic skills in engineering fields and have in-depth expertise in computer engineering subjects
4. Gain experiences in hardware and software design, requirements gathering, planning, requirements specification, and development to conduct at least one capstone project
5. Acquire skills in using various tools in engineering, hardware and software development, and effective assessment program
6. Understand the responsibilities of professional engineers in terms of way of living, communication, professional ethics, professional councils and relevant laws, and the impact of the profession to the society and the environment
7. Exhibit skills to present and write technical reports as well as analyze and review others' works

Program Structure (127 total credit requirement)

1 General Education Courses **33 Credits**	**2** Core Courses **88 Credits**	**3** Free Elective Courses **6 Credits**

Interesting Elective Courses

- High Level Design for Digital Systems
- Embedded Systems and IoT
- Computation Structure
- Web Application Development
- Asynchronous Programming Development
- Artificial Intelligence
- Cloud Computing
- Cyber-Physical Systems
- Knowledge Engineering and Data Mining
- Technologies for Smart City

Career Opportunities

- Computer Engineer
- Embedded System Developer
- Integrated Computer Network and Information System Staff
- Software Developer
- Big Data System Engineer
- Computer Researcher/Academic Assistant
- Educator
- Computer Business Owner/Entrepreneur

Admission Requirements

An applicant must hold a high school diploma with minimum 30 credits in science and mathematics; or a vocational certificate with emphasis on industrial, electronics, telecommunication, or computer technology; or equivalent from a school or institution accredited by the Ministry of Education.

For inquiries, please call +662-121-3700 (ext. 5001) during official working hours, or email: fdt@cdti.ac.th.

FACULTY OF INDUSTRIAL TECHNOLOGY

The faculty aims to produce good and highly competent graduates equipped with knowledge and skills related to industrial technology. The curricula have accordingly been organized following the royal initiative of **"Study and Work – Work and Study"** conceptual framework to encourage work efficiency and to correspond with the current trends of modern industrial technology. This will ensure that the standard of practice is acceptable in ASEAN.

Highlights of the Faculty

- Focusing on learning by doing
- Focusing on producing good self-disciplined, hard-working, and proficient graduates
- Collaborating classes between the faculty and entrepreneurs
- Developing highly competent graduates in response to the demands from the industrial sector and providing assistance in finding career opportunity upon graduation
- Cooperating with Thailand's leading companies which offer a wide coverage of work units
- Promoting development of research and innovation with entrepreneurs
- Teaching and training by professionals

Bachelor of Technology in Electrical Engineering Technology

B.Tech. (Electrical Engineering Technology)

The curriculum, as structured with the concept of Study and Work, focuses on developing highly competent graduates to supply the demands of the engineering industry. The program is divided to 3 majors:

4 YEAR PROGRAM

1. Engineering Technology for Smart Building System:

To produce highly-skilled graduates for the line of work related to supervision, design, inspection, installation, and maintenance of electrical systems in buildings associated with smart buildings, fire alarm system, air-conditioning system, renewable energy and energy management system.

2. Engineering Technology for Electric Vehicle:

To produce highly-skilled graduates in the areas of analysis, design, and maintenance of electric vehicle systems, control units, and charging systems, battery technology, and automotive technology.

3. Engineering Technology for Automatic Industry System:

To produce highly-skilled graduates for the line of work related to production development, Supervisory Control and Data Acquisition (SCADA) system development, information management system, and industrial process control, application and development of industrial robots, real-time monitor system development, and Internet of Things (IoT) system.

The Cooperative Education Guidelines

- study and work integration
- three-year study on campus and one-year training at companies of CDTI's network
- earning while training
- studying English and a third language (selecting from Chinese, Japanese, German, and French)
- improving fundamental engineering skills and preparing for real-life working situations

Career Opportunities

Self-employed, Production Supervisor, Engineer, Maintenance Supervisor for High-rise Building Systems, Engineering and Technology Trainer, Researcher or Innovator, Sales Engineer, Production Engineer, Research and Innovation Engineer

Admission Requirements

An applicant must hold a high school diploma; or a vocational certificate with emphasis on electrical power, electronics, or industrial-related fields; or equivalent from a school or institution accredited by the Ministry of Education.

Bachelor of Technology in Industrial Technology

B.Tech. (Industrial Technology)

The curriculum, as structured with the concept of work and study, focuses on strengthening personnel with advanced engineering skills to be adaptive to current and future changes in production and service, as shown in the form of START-UP businesses, to serve the present needs of industrial workforce.

2 YEAR PROGRAM

Highlights of the Curriculum

- work-and-study integration
- performing regular duties on weekdays: strengthening knowledge and analyzing current projects
- studying on weekends: improving work-related subjects (Thai, English, Math, and Social Studies), gaining new knowledge (AI, SCADA, IOT, etc.), and experimenting modern technology

YEAR 1

Students take fundamental courses in innovative technology to build essential skills in planning, quality controlling, thinking and analyzing, and designing preliminary-structure projects.

YEAR 2

Students examine and apply technology to gain abilities in communicating, instructing, managing, and becoming an entrepreneur.

The Module Learning Method

Majors:

1. Industry: Safety and Health, Quality Control, Maintenance Technology, Material Handling Systems, Information Systems for Industrial Management

2. Management: Project Planning and Management, Innovation and Design, Industrial Technology Seminar, Coaching, Entrepreneurship

Career Opportunities

Entrepreneur, Business Owner, Production Administrative Officer, Quality Control Manager, New Product Design Manager, Project Manager, System Analyst and Designer, Engineering Designer, Automatic Control System Developer, Government Officer, Teacher-Lecturer

Admission Requirements

1. Graduated with a high vocational certificate in Industrial Technology
2. Have at least one year working experience
3. Currently holding a permanent position in Industrial Technology field

For inquiries, please call +662-280-0551 (ext. 3245) during official working hours, or email: ind.tech@cdti.ac.th.

Vocational Certificate (Voc. Cert.) and High Vocational Certificate (High Voc. Cert.)

Under the auspices of Chitralada Technology Institute (CDIT), Chitralada Vocational School offers vocational and high vocational certificate programs with a wide range of study fields, including agriculture, business administration, entertainment and music industry, home economics, industry, and information and communication technology. The unique feature is the school's customized programs which integrate state-of-the-art teaching and studying methodologies with rigorous practical work training in Thailand's leading companies to enhance students' professional skills and quality and to develop their potentials for advancing themselves in the world of careers.

Highlights of the Programs

Chitralada Vocational School provides the students with opportunities to take an active part in shaping their educational plans, broadening their experience, and deeply engaging in their study. Students are able to select a program which satisfies their interests and potentials as follows:

1. **Regular Education Program:**
   This program is designed for students to gradually acquire knowledge and gain the core and functional competencies in their professions. Students are required to attend classes for six semesters in vocational certificate level and four semesters in high vocational certificate level. In addition, students also receive practical training sessions at one of more than 80 leading companies in Thailand during summer semesters.

2. **Dual Vocational Education Program:**
   This two-year program is intended for high vocational students to obtain fundamental professional knowledge and life skills at the school campus for one year, followed by another year of work training at companies which are CDTI's networks. This collaboration creates educational opportunities for students and offers them career prospects upon finishing the program.

3. **Dual Certificate Program:**
   Based on the active cooperation between CDTI and our partner colleges in China: Tianjin Bohai Vocational and Technical College and Guizhou Light Industry Technical College, two dual certificate programs at high vocational level are offered, including mechatronics and robotics, and embedded system software, respectively. Students are granted two high vocational certificates from the colleges in China and CDTI upon the completion of their study.

   In addition, CDTI has also been organizing short-term programs in food and nutrition with Leshan Vocational and Technical College for over the past 10 years.

4. Dual Education Program:

The school has launched a new dual education program in innovative agriculture by collaborating with Wangchanwittaya School in Rayong Province. Students are able to gain knowledge and skills through the integrated teaching and learning methodology, supported by experts and lecturers from the National Science and Technology Development Agency, Petroleum Authority of Thailand, Department of Agricultural Extension, and Kamnoetvidya Science Academy.

Students will obtain two certificates in higher secondary education and vocational levels after their graduation.

Vocational Certificate (Voc. Cert.)

Fields of Study:
- Automobile
- Electronics
- Embedded System
- Food and Nutrition
- Information Technology
- Innovative Agriculture (dual education program)
- Marketing
- Mechanics
- Power Electrics
- Thai Musical Instrument Craftsmanship

Admission Requirements:
An applicant must complete lower secondary education level (Mattayom 3 or Grade 9) from a school accredited by the Ministry of Education.

High Vocational Certificate (High Voc. Cert.)

Fields of Study:
- Automotive Body and Painting (dual vocational education program)
- Automotive Parts Production (dual vocational education program)
- Automotive Technology (regular/dual vocational education programs)
- Control and Maintenance Techniques for Transportation Railway System
- Embedded System Software (regular/dual certificate program)
- Food Industry
- Industrial Electronics (regular/dual vocational education programs)
- International Food Chef (dual vocational education program)
- International Food and Nutrition
- Information Technology
- Marketing
- Mechatronics and Robotics (dual vocational education/dual certificate programs)
- Power Electrics (regular/dual vocational education programs)
- Thai Food Chef
- Thai Musical Instrument Craftsmanship Technology

Admission Requirements:
An applicant must hold a vocational certificate in allied fields of study from Chitralada Vocational School.

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