Bachelor of Science Program in Industrial Technology

1. **For those who have completed upper secondary school or its equivalent or possess a vocational certificate or its equivalent.**

(1) Program Structure

The program requires at least 21 courses or 126 credits comprising the following:

A.	General Education Courses	5	courses	(30 credits)
B.	Area-specific Courses	15	courses	(90 credits)
C.	Open Elective Courses	1	course	(6 credits)

(2) Program Details

A. General Education Courses 5 courses (30 credits)

- 10103 Life Skills
- 10111 English for Communication
- 10141 Science, Technology and Environment for Life
- 10151 Thai Studies
- 10152 Thailand and the World Community

B. Area-specific Courses 15 courses (90 credits)

1) Major in Manufacturing Engineering Technology and Management

Required 13 courses

- 96102 Mathematics and Statistics for Science and Technology
- 97218 Operation Managements and Entrepreneurships
- 97219 Industrial Materials and Manufacturing Process
- 97222 Digital Transformation for Industry and Business
- 97314 Technology for Production Planning and Control in Industry
- 97315 Tools and Machines for Manufacturing Process*
- 97316 Technology for Product and Process Design in Industry*
- 97317 Information Systems and Automation in Industry
- 97418 Safety, Occupational Health and Environment in Industry
- 97419 Quality Management and Industrial Standards
- 97420 Logistics and Supply Chain Management for Industry
- 97421 Professional Experience in Production Engineering Technology and Management**
- 97423 Plant Layout and Work Study in Industry

Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

And choose 2 courses from the following:

97210 Applied Mathematics for Industrial Technology

97217 Basic Mechanical Engineering for Industrial Technology

97221 Creative Thinking and Problem Solving in Industry

97426 Applied Electrical and Computer Engineering

97433 Industrial Feasibility Study and Project Management

97436 Artificial Intelligence for Industry and Business

2) Major in Packaging Technology and Product Handling

Required 13 courses

96102 Mathematics and Statistics for Science and Technology

97103 General Studies in Packaging

97214 Printing and Packaging Materials

97218 Operation Managements and Entrepreneurships

97220 Management and Strategic Product Development

97314 Technology for Production Planning and Control in Industry

97317 Information Systems and Automation in Industry

97320 Innovation Design Technology of Product and Packaging*

97418 Safety, Occupational Health and Environment in Industry

97419 Quality Management and Industrial Standards

97420 Logistics and Supply Chain Management for Industry

97431 Packaging Converting Technology*

97432 Professional Experience in Packaging Technology and
Product Management**

And choose 2 courses from the following:

71311 Food Production and Processing Technologies

71314 Food Product Development

94330 Agricultural Products and Processing Management

94431 Agricultural Marketing Management

97101 General Studies in Printing

97221 Creative Thinking and Problem Solving in Industry

97222 Digital Transformation for Industry and Business

97318 Printing and Packaging Design*

99319 Web and mobile Interaction Design

99321 Applied Information and Communication Technology for Elder

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Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

C. Open Elective Courses 1 course (6 credits)

Choose a course from courses offered in the certificate of achievement or certificate programs, undergraduate programs or equivalents.

> **2. For those who have completed a higher vocational certificate or a diploma or equivalent in a field of industry or a diploma in a field of Industrial Management or in a field Logistics Management or other related fields from community college.**

(1) Program Structure

The program requires at least 14 courses or 84 credits comprising the following:

A.	General Education Courses	3	courses	(18 credits)
B.	Area-specific Courses	11	courses	(66 credits)

(2) Program Details

A. General Education Courses 3 courses (18 credits)

10121 Human Civilization

10131 Human Society

10151 Thai Studies

B. Area-specific Courses 11 courses (66 credits)

1) Major in Manufacturing Engineering Technology and Management

Required 9 courses

97218 Operation Managements and Entrepreneurships

97219 Industrial Materials and Manufacturing Process

97222 Digital Transformation for Industry and Business

97314 Technology for Production Planning and Control in Industry

97315 Tools and Machines for Manufacturing Process*

97316 Technology for Product and Process Design in Industry*

97419 Quality Management and Industrial Standards

97421 Professional Experience in Production Engineering Technology and Management**

97423 Plant Layout and Work Study in Industry

And choose 2 courses from the following:

97210 Applied Mathematics for Industrial Technology

97217 Basic Mechanical Engineering for Industrial Technology

97221 Creative Thinking and Problem Solving in Industry

97426 Applied Electrical and Computer Engineering

97433 Industrial Feasibility Study and Project Management

97436 Artificial Intelligence for Industry and Business

Note: * Professional skill training is required.

　　** Students must register when no more than the last 3 courses remain.

2) Major in Packaging Technology and Product Handling

Required 9 courses

97103   General Studies in Packaging

97214   Printing and Packaging Materials

97218   Operation Managements and Entrepreneurships

97220   Management and Strategic Product Development

97314   Technology for Production Planning and Control in Industry

97317   Information Systems and Automation in Industry

97320   Innovation Design Technology of Product and Packaging*

97431   Packaging Converting Technology**

97432   Professional Experience in Packaging Technology and
        Product Management****

And choose 2 courses from the following:

71311   Food Production and Processing Technologies

71314   Food Product Development

94330   Agricultural Products and Processing Management

94431   Agricultural Marketing Management

97101   General Studies in Printing

97221   Creative Thinking and Problem Solving in Industry

97222   Digital Transformation for Industry and Business

97318   Printing and Packaging Design*

99319   Web and mobile Interaction Design

99321   Applied Information and Communication Technology for Elder

3.   For those who have completed a higher vocational certificate or equivalent, or a diploma or equivalent in other fields than of industry.

(1) Program Structure

The program requires at least 17 courses or 102 credits comprising the following:

A.	General Education Courses	3 courses	(18 credits)
B.	Area-specific Courses	14 courses	(84 credits)

(2) Program Details

A. General Education Courses 3 courses (18 credits)

10121   Human Civilization

10141   Science, Technology and Environment for Life

10151   Thai Studies

Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

B. **Area-specific Courses 14 courses (84 credits)**

1) **Major in Manufacturing Engineering Technology and Management**

Required 12 courses

96102   Mathematics and Statistics for Science and Technology

97218   Operation Managements and Entrepreneurships

97219   Industrial Materials and Manufacturing Process

97222   Digital Transformation for Industry and Business

97314   Technology for Production Planning and Control in Industry

97315   Tools and Machines for Manufacturing Process*****

97316   Technology for Product and Process Design in Industry*****

97317   Information Systems and Automation in Industry

97418   Safety, Occupational Health and Environment in Industry

97419   Quality Management and Industrial Standards

97421   Professional Experience in Production Engineering Technology and Management******

97423   Plant Layout and Work Study in Industry

And choose 2 courses from the following:

97210   Applied Mathematics for Industrial Technology

97217   Basic Mechanical Engineering for Industrial Technology

97221   Creative Thinking and Problem Solving in Industry

97426   Applied Electrical and Computer Engineering

97433   Industrial Feasibility Study and Project Management

97436   Artificial Intelligence for Industry and Business

2) **Major in Packaging Technology and Product Handling**

Required 10 courses

97103   General Studies in Packaging

97214   Printing and Packaging Materials

97218   Operation Managements and Entrepreneurships

97220   Management and Strategic Product Development

97314   Technology for Production Planning and Control in Industry

97317   Information Systems and Automation in Industry

97320   Innovation Design Technology of Product and Packaging*

97418   Safety, Occupational Health and Environment in Industry

97431   Packaging Converting Technology*****

97432   Professional Experience in Packaging Technology and Product Management******

Note: *   Professional skill training is required.

       **   Students must register when no more than the last 3 courses remain.

choose 2 courses from the following:

71311 Food Production and Processing Technologies

71314 Food Product Development

94330 Agricultural Products and Processing Management

94431 Agricultural Marketing Management

97101 General Studies in Printing

97221 Creative Thinking and Problem Solving in Industry

97222 Digital Transformation for Industry and Business

97318 Printing and Packaging Design*

99319 Web and mobile Interaction Design

99321 Applied Information and Communication Technology for Elder

And choose another 2 courses from the following:

96102 Mathematics and Statistics for Science and Technology

97419 Quality Management and Industrial Standards

97420 Logistics and Supply Chain Management for Industry

4. For those who have completed a degree or equivalent in fields of industry.

(1) Program Structure

The program requires at least 12 courses or 72 credits comprising the following:

A. General Education Courses   1   course   (6 credits)

B. Area-specific Courses   11   courses   (66 credits)

(2) Program Details

A. General Education Courses 1 course (6 credits)

10151 Thai Studies

B. Area-specific Courses 11 courses (66 credits)

1) Major in Manufacturing Engineering Technology and Management

Required 9 courses

97218 Operation Managements and Entrepreneurships

97219 Industrial Materials and Manufacturing Process

97222 Digital Transformation for Industry and Business

97314 Technology for Production Planning and Control in Industry

97315 Tools and Machines for Manufacturing Process*

97316 Technology for Product and Process Design in Industry*

97419 Quality Management and Industrial Standards

97421 Professional Experience in Production Engineering Technology and Management**

97423 Plant Layout and Work Study in Industry

Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

And choose 2 courses from the following:

97210 Applied Mathematics for Industrial Technology

97217 Basic Mechanical Engineering for Industrial Technology

97221 Creative Thinking and Problem Solving in Industry

97426 Applied Electrical and Computer Engineering

97433 Industrial Feasibility Study and Project Management

97436 Artificial Intelligence for Industry and Business

2) Major in Packaging Technology and Product Handling

Required 9 courses

97103 General Studies in Packaging

97214 Printing and Packaging Materials

97218 Operation Managements and Entrepreneurships

97220 Management and Strategic Product Development

97314 Technology for Production Planning and Control in Industry

97317 Information Systems and Automation in Industry

97320 Innovation Design Technology of Product and Packaging*

97431 Packaging Converting Technology**

97432 Professional Experience in Packaging Technology and
Product Management**

And choose 2 courses from the following:

71311 Food Production and Processing Technologies

71314 Food Product Development

94330 Agricultural Products and Processing Management

94431 Agricultural Marketing Management

97101 General Studies in Printing

97221 Creative Thinking and Problem Solving in Industry

97222 Digital Transformation for Industry and Business

97318 Printing and Packaging Design*

99319 Web and mobile Interaction Design

99321 Applied Information and Communication Technology for Elder

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Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

5. For those who have completed a degree or equivalent in other fields than of industry.

(1) Program Structure

The program requires at least 15 courses or 90 credits comprising the following:

A.	General Education Courses	1	course	(6 credits)
B.	Area-specific Courses	14	courses	(84 credits)

(2) Program Details

A. General Education Courses 1 course (6 credits)

10151   Thai Studies

B. Area-specific Courses 14 courses (84 credits)

1) Major in Manufacturing Engineering Technology and Management

Required 12 courses

96102   Mathematics and Statistics for Science and Technology

97218   Operation Managements and Entrepreneurships

97219   Industrial Materials and Manufacturing Process

97222   Digital Transformation for Industry and Business

97314   Technology for Production Planning and Control in Industry

97315   Tools and Machines for Manufacturing Process*

97316   Technology for Product and Process Design in Industry*

97317   Information Systems and Automation in Industry

97418   Safety, Occupational Health and Environment in Industry

97419   Quality Management and Industrial Standards

97421   Professional Experience in Production Engineering Technology and Management**

97423   Plant Layout and Work Study in Industry

And choose 2 courses from the following:

97210   Applied Mathematics for Industrial Technology

97217   Basic Mechanical Engineering for Industrial Technology

97221   Creative Thinking and Problem Solving in Industry

97426   Applied Electrical and Computer Engineering

97433   Industrial Feasibility Study and Project Management

97436   Artificial Intelligence for Industry and Business

Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

2) Major in Packaging Technology and Product Handling

Required 10 courses

97103   General Studies in Packaging

97214   Printing and Packaging Materials

97218   Operation Managements and Entrepreneurships

97220   Management and Strategic Product Development

97314   Technology for Production Planning and Control in Industry

97317   Information Systems and Automation in Industry

97320   Innovation Design Technology of Product and Packaging*

97419   Quality Management and Industrial Standards

97431   Packaging Converting Technology**

97432   Professional Experience in Packaging Technology and
Product Management****

choose 2 courses from the following:

71311   Food Production and Processing Technologies

71314   Food Product Development

94330   Agricultural Products and Processing Management

94431   Agricultural Marketing Management

97101   General Studies in Printing

97221   Creative Thinking and Problem Solving in Industry

97222   Digital Transformation for Industry and Business

97318   Printing and Packaging Design*

99319   Web and mobile Interaction Design

99321   Applied Information and Communication Technology for Elder

And choose another 2 courses from the following:

96102   Mathematics and Statistics for Science and Technology

97418   Safety, Occupational Health and Environment in Industry

97420   Logistics and Supply Chain Management for Industry

Note: * Professional skill training is required.

** Students must register when no more than the last 3 courses remain.

Last updated: 20-July-2023