**Revised: Mar. 2024**

****

**Curriculum and Program of Study ..............................................**

 **New/Revised Program**

**B.E. 20xx**

**Campus/Faculty/Department.......................................**

**Mahidol University**

Program Specification

**Bachelor of ................................................................**

**Program of Study .............................................................**

**New or Revised Program B.E. ........**

***----------------------------***

**Name of Institution**  Mahidol University

**Campus/Faculty/Department** .....................................................

# Section 1 General Information

## 1. Code and Program Title

 In Thai : .....................................................

 In English : .....................................................

## 2. Degree Offered and Field of Study

 In Thai Full Name : .....................................................

 Abbreviation : .....................................................

 In English Full Name : .....................................................

 Abbreviation : .....................................................

## 3. Major Subject (If Applicable) .....................................................

## 4. Total Credits Required .....................................................

## 5. Program Characteristics

###  5.1 Program Level .....................................................

###  5.2 Type of Program .....................................................

###  5.3 Language ..................................................

###  5.4 Degree Offered ..................................................

## 6. Curriculum and Expected Learning Outcomes Development

###  6.1 Related Institutional Missions

..............................................................................................................................................................................

###  6.2 External Factors and/or Development Considered in Program Planning

..............................................................................................................................................................................

###  6.3 Stakeholder Needs/Expectations

..............................................................................................................................................................................

(Shown in Appendix 3)

# Section 2 Philosophy, Program Objectives, and Program–Level Learning Outcomes

## 1. Philosophy

 ....................................................................................................................

 ...................................................................................................................

## 2. Program Goal and Objectives

### 2.1 Goal

 ....................................................................................................................

 ...................................................................................................................

### 2.2 Objectives

 ....................................................................................................................

 ...................................................................................................................

## 3. Program–Level Learning Outcomes: PLOs

 When completing the program, the graduates will be able to

 1. ....................................................................................................................

 2. ....................................................................................................................

 3. ....................................................................................................................

 4. ....................................................................................................................

 5. ....................................................................................................................

 6. ....................................................................................................................

 7. ....................................................................................................................

 9. ....................................................................................................................

## 4. Relationship and Comparison between Program-Level Learning Outcomes (PLOs) and Learning Outcome Standards in Accordance with Thai Qualifications Framework for Higher Education: Shown in Appendix 3

# Section 3 Educational Management System, Curriculum Structure, Course of the Program and Credits

## 1. Educational Management System

###  1.1 System ................................................

###  1.2 Summer Sessions ................................................

###  1.3 Credit Equivalence Ratio (In Reference to Semester System)

................................................

###  1.4 Academic System

□ In Class

□ Distance Learning Mainly Through Printed Materials

□ Distance Learning Mainly Through Broadcast Media

□ Distance Learning Mainly Through Electronic Media (E-learning)

□ Distance Learning Through the Internet

□ Others (Please Specify)

###  1.5 Credit Transfer and Cross-institutional Enrollment (If any)

 ...................................................................................................................

## 2. Curriculum

###  2.1 Number of Credits

 The required number of credits in total must not be less than ………... credits

###  2.2 Curriculum Structure

 Complies with the Commission on Higher Education Standards’ criteria for bachelor’s degree program B.E. 2022

 **1) General Education no less than** ......... **Credits**

 1. Social Sciences and Humanities ......... Credits

 2. Languages ......... Credits

 3. Science and Mathematics ......... Credits

 **2) Specific Courses no less than ......... Credits**

 1. Core Courses ......... Credits

 2. Major Required Courses ......... Credits

 3. Major Elective Courses ......... Credits

 **3) Free Electives no less than ......... Credits**

###  2.3 Courses of the Program

####  2.3.1 Course Codes

 …………………………………………………………………….

####  2.3.2 Course Title

 **1) General Education no less than ......... Credits**

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 **2) Specific Courses no less than ......... Credits**

 1. Core Courses ......... Credits

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 2. Major Required Courses ......... Credits

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 3. Major Elective Courses ......... Credits

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

 xxxx xxx ………………………………………… x (x-x-x)

3) Free Electives no less than ......... Credits

###  2.4 Study Plan

###  2.5 Curriculum Mapping: Shown in Appendix 4

## 3. Course Description

.................................………......................................................................

................................................................................................................

# Section 4 Program-Level Learning Outcomes, Teaching and Evaluation Strategy

## Program-Level Learning Outcomes (PLOs), Constructive Alignment: Teaching and Evaluation Strategies

|  |  |  |
| --- | --- | --- |
| **Program-Level Learning Outcomes** | **Teaching Strategy** | **Evaluation Strategy** |
| PLO 1 **.............................** |  |  |
| PLO 2 **.............................** |  |  |
| PLO 3 **.............................** |  |  |
| PLO 4 **.............................** |  |  |
| PLO 5 **.............................** |  |  |
| PLO 6 **.............................** |  |  |
| PLO 7 **.............................** |  |  |
|  |  |  |

# Section 5 Potential in Curriculum Management

## 1. Record of Program Status and Approval / Endorsement

 1.1 The program was first offered in the year……………………...

1.2 The curriculum was revised in the semester ………… of academic year .......................

 by adapting from the revised edition B.E. ……………….

1.3 The Mahidol University Council approved this program at its meeting No ……….... dated …………...

1.4 The Professional Council certified the program on ……... (date) …. (month) ……. (year) …... (if any)

## 2. Collaboration with Other Institutions

 ……………………………………………………………….

## 3. Study Site Location

 ……………………………………………………………….

 ……………………………………………………………….

## 4. Program Implementation

 **4.1 Academic Calendar**

 ……………………………………………………………….

 **4.2 A Five-year Plan for Admission and Graduation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Academic Year** | **25xx** | **25xx** | **25xx** | **25xx** | **25xx** |
| First-year student |  |  |  |  |  |
| Second-year student |  |  |  |  |  |
| Third-year student |  |  |  |  |  |
| Fourth-year student |  |  |  |  |  |
| Cumulative number |  |  |  |  |  |
| Number of expected graduates |  |  |  |  |  |

## 5. Budget Plan

###  5.1 Break-even and Cost-effectiveness

* Income per person throughout the program in the amount of ...................... baht
* Cost per person throughout the program in the amount of ...................... baht
* Lowest number of students to break even ..................... students
* Number of students expected to be accepted ..................... students

 **Not a break-even program but cost-effective**

 .......................................... (อธิบายเหตุผล) .....................................

###  5.2 Cost Calculation for Producing Graduates (Baht/Academic year)

####  1) Cost of Producing Graduates

|  |  |  |
| --- | --- | --- |
| **No.** | **Expenses** | **Baht/Academic year** |
| 1 | Personnel expenses |  |
| 2 | Compensation, Current expenses and​material cost |  |
| 3 | Utility cost |  |
| 4 | Depreciation |  |
| 5 | Subsidies |  |
| 6 | Others |  |

####  2) Income from Tuition Fees and others

|  |  |  |
| --- | --- | --- |
| **No.** | **Income** | **Baht/year/Program** |
| 1 | Tuition fees |  |
| 2 | External grants or education support of the program |  |
| 3 | Others |  |

###  5.3 Unit Cost (ค่าใช้จ่ายต่อหนึ่งหน่วยการผลิต)

 **......................................**

## 6. Program Instructors

###  6.1 Name, Surname, Academic Position, Qualifications, Identification Number of Program Instructors

####  6.1.1 Instructors Responsible for the Program

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Name-Surname (1)** | **Academic Position** | **Qualifications** **(Field of study)/ Institution/****Graduation Year** | **1 piece of academic work most recently published in the past 5 year (2)** |
| 1 | (3)Mr./Mrs./Miss………………………..…….ID Number ……………………. xxx | Prof./Assoc Prof./Asst. Prof. | -Doctor degree -Master’s degree-Bachelor’s degree |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

####  6.1.2 Program Instructors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Name-Surname (1)** | **Academic Position** | **Qualifications** **(Field of study)/ Institution/****Graduation Year** | **1 piece of academic work most recently published in the past 5 year (2)** |
| 1 | (3)Mr./Mrs./Miss………………………..…….ID Number ……………………. xxx | Prof./Assoc Prof./Asst. Prof. | -Doctor degree -Master’s degree-Bachelor’s degree |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

####  6.1.3 Full-time Instructors from Other Faculties

 6.1.3.1 ........................................................

 6.1.3.2 ........................................................

####  6.1.4 Special Instructors

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Name-Surname (1)** | **Academic Position** | **Qualifications** **(Field of study)/ Institution/****Graduation Year** |
| 1 | )Mr./Mrs./Miss………………………..……. | Prof./Assoc Prof./Asst. Prof. | -Doctor degree -Master’s degree-Bachelor’s degree |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |

## 7. Instructor’s Professional Development

###  7.1 New Instructor Orientation

 .................................................................................

###  7.2 Knowledge and Skill Development for Instructor

####  7.2.1 Development of Teaching Skills, Assessment, and Evaluation

 .................................................................................

####  7.2.2 Other Academic and Professional Development

 .................................................................................

# Section 6 Admission Requirements

## 1. Admission Requirements

.................................................................................

................................................................................

## 2. Admission

.................................................................................

................................................................................

## 3. Limitations for Certain Groups of Newly Enrolled Students and Strategies to Resolve Students’ Limitations

|  |  |
| --- | --- |
| **Limitations of Newly Enrolled Students** | **Strategies to Resolve Students’ Limitations** |
|  |  |
|  |  |
|  |  |

# Section 7 Student Evaluation Criteria and Graduation Requirements

## 1. Grading Rules/Guidelines

..............................................................................................................

..............................................................................................................

## 2. Standard Verification Process for Student Achievement

..............................................................................................................

..............................................................................................................

## 3. Graduation Requirements

..............................................................................................................

..............................................................................................................

## 4. Students’ Appeal

**..............................................................................................................**

**..............................................................................................................**

# Section 8 Quality Assurance

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Section 9 Evaluation, Improvement, and Implementation

## 1. Assessment of Teaching Effectiveness

###  1.1 Assessment of Teaching Effectiveness in Course Level

 ......................................................................................................................

###  1.2 Assessment of the Instructor’s Skills in Applying Teaching Strategies

 ......................................................................................................................

## 2. Overall Evaluation of the Program

 ..............................................................................................................................

## 3. Assessment of the Program Implementation Based on the Program Specification

..............................................................................................................................

## 4. Review of Evaluation Results and Plans for Improvement

 ..............................................................................................................................

 ..............................................................................................................................

# Appendices in Program Booklet

New or Revised Program B.E. …...

|  |  |
| --- | --- |
| **Appendix 1**  | Mahidol University Degree Profile |
| **Appendix 2** | 2.1 Program-Level Learning Outcomes and Sub Outcomes (PLOs and SubPLOs)2.2 Relationship between Program Learning Outcomes and Characteristics of Mahidol University Graduates2.3 Expected Learning Outcomes at the End of Academic Year |
| **Appendix 3** | 3.1 Table Showing Relationship between Program-Level Learning Outcomes (PLOs) and Learning Outcome Standards in Accordance with Thai Qualifications Framework for Higher Education3.2 Table Showing Relationship between Program-Level Learning Outcomes (PLOs) and Learning Outcome Standards in Accordance with the Professional Council / Association of the field of study has defined the national qualification standards for professionals / field of study (If applicable)3.3 Table Showing Relationship Between Program-Level Learning Outcomes (PLOs) and Stakeholder Needs/Expectations. |
| **Appendix 4** | 4.1 Curriculum Mapping: Represented by Symbols I, R, P, M |
| 4.2Curriculum Mapping Represented by Symbols ● Primary Responsibility ○ Secondary Responsibility **Note**: Show Appendix 4.2 **only** in the case that the Professional Council or the academic association of the field of study continues to require the Thai Qualifications Framework for Higher Education in **original format**.  |
| **Appendix 5** | Essence of Program Revision B.E. .……...…… edition(This appendix is not required for **new programs**) |
| **Appendix 6** | Details of the program instructors in-charge, regular instructors, and special instructors |
| **Appendix 7** | Mahidol University Regulation on Diploma and Undergraduate Studies B.E. ………….... and Announcements / Regulations on Education Affairs of Working Units |
| **Appendix 8** | Orders of Program Development Committee or Persons Responsible for Program Review of Working Units |
| **Appendix 9** | Documents on the International Standard of the Program (If any) |
| **Appendix 10** | Documents on Collaboration with Domestic and Foreign Agencies (MOU) (if any) |
| **Other Appendices** | (if any) |

# Appendix 1MU Degree Profile

## MU Degree Profile

|  |
| --- |
| **Bachelor’s degree Program** |
| 1. Program Title(In Thai) ............................................................................(In English) ...............................................................................2. Degree Offered(In Thai) ..........................................................................(In English) ........................................................................ |
| **General Information of the Program** |
| Type of program |  |
| Number of Credits |  |
| Study Duration / Program Cycle |  |
| Program Status and Program Schedule |  |
| Degree Granting |  |
| Degree-granting Institutions (MOU with other institutions) |  |
| Accreditation Institution |  |
| **Specific information of the program** |
| Goals & Objectives | **Goals:**……………………………………………..**Objectives:** ……………………………………………..…………………………………………….. |
| Distinctive Features |  |
| Educational System |  |
| **Graduates’ advancement** |
| Career opportunities |  |
| Further fields of study |  |
| **Philosophy in program administration** |
| Educational Philosophy |  |
| Strategy / teaching guidelines |  |
| Strategy / student’s evaluation guidelines |  |
| **Competences provided to the students** |
| Generic Competences |  |
| Subject-specific Competences  | 1. Subject-specific Knowledge……………………………………………………………….2. Subject-specific Application- Cognitive skill……………………………………………………………….- Psychomotor skill……………………………………………………………….- Communication skill……………………………………………………………….- Collaboration skill……………………………………………………………….3. Professional ethics/Professionalism………………………………………………………………. |
| **Graduates’ learning outcomes** |
| At the end of the program, successful students will be able to: |
| **PLO1** .............................................................................. |
| **PLO2** .............................................................................. |
| **PLO3** .............................................................................. |
| **PLO4** .............................................................................. |
| **PLO5** .............................................................................. |
| **PLO6** .............................................................................. |
| **PLO…** .............................................................................. |
| **PLO…** .............................................................................. |

# Appendix 2

**2.1 Program-level Learning Outcomes and Sub Program-level Learning Outcomes (PLOs and SubPLOs)**

**2.2 Relationship between Program-Level Learning Outcomes and Desirable Characteristics of Mahidol University Graduates**

**2.3 Expected Learning Outcomes of Students in Each Year of Study at the End of Academic Year**

## Appendix 2.1 Program-level Learning Outcomes and Sub Program-level Learning Outcomes (PLOs and SubPLOs)

At the end of the program, successful students will be able to:

|  |  |
| --- | --- |
| **PLOs** | **SubPLOs** |
| PLO1 …………….………….……………… | 1.1 ………………………………………………………………………………… |
| 1.2 ………………………………………………………………………………… |
| 1.3 ………………………………………………………………………………… |
| PLO2 …………….………….……………… | 2.1 ………………………………………………………………………………… |
| 2.2 ………………………………………………………………………………… |
| 2.3 ………………………………………………………………………………… |
| 2.4 ………………………………………………………………………………… |
| PLO3 …………….………….………………  | 3.1 ………………………………………………………………………………… |
| 3.2 ………………………………………………………………………………… |
| 3.3 ………………………………………………………………………………… |
| PLO4 …………….………….……………… |  |
|  |
|  |
|  |
| … |  |
|  |
| … |  |
|  |

## Appendix 2.2 Relationship between Program-Level Learning Outcomes and Desirable Characteristics of Mahidol University Graduates

|  |  |
| --- | --- |
| **4 MU-Graduate Attributes** | **Program Learning Outcome** |
| **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **….** | **….** |
| T-shaped Breath & Depth: Understanding thoroughly both breadth & depth |  |  |  |  |  |  |  |  |
| Globally Talented: Having talented and experiences to contending against globally |  |  |  |  |  |  |  |  |
| Socially Contributing: Having a public consciousness advantaging to the society |  |  |  |  |  |  |  |  |
| Entrepreneurially Minded: Decisively thinking, doing, making a decision to accordingly contributing creativity |  |  |  |  |  |  |  |  |

## Appendix 2.3 Expected Learning Outcomes of Students in Each Year of Study at the End of Academic Year

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PLOs** | **1st Year** | **2nd Year** | **3rd Year** | **4th year** |
| **1** |  |  |  | = PLO1 |
| **2** |  |  |  | = PLO2 |
| **3** |  |  |  | = PLO3 |
| **…** |  |  |  | … |
|  |  |  |  |  |
|  |  |  |  |  |

# Appendix 3

**3.1 Table Showing Relationship between Program-Level Learning Outcomes (PLOs) and Learning Outcome Standards in Accordance with Thai Qualifications Framework for Higher Education**

**3.2 Table Showing Relationship between Program-Level Learning Outcomes (PLOs) and Learning Outcome Standards in Accordance with the Professional Council / Association of the field of study has defined the national qualification standards for professionals / field of study (If applicable)**

**3.3 Table Showing Relationship Between Program-Level Learning Outcomes (PLOs) and Stakeholder Needs/Expectations.**

## Appendix 3.1 Relation between PLOs and Learning Outcome Standards in Accordance with Thai Qualification Framework for Higher Education

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Learning Outcome Standards in Accordance with Thai Qualification****Framework for Higher Education/ the Professional Qualifications Framework** | **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **PLO7** | **PLO8** | **PLO9** | **.....** |
| **1. Knowledge** |  |  |  |  |  |  |  |  |  |  |
| 1.1 |  |  |  |  |  |  |  |  |  |  |
| 1.2 |  |  |  |  |  |  |  |  |  |  |
| 1.3 |  |  |  |  |  |  |  |  |  |  |
| **2. Skills** |  |  |  |  |  |  |  |  |  |  |
| 2.1 |  |  |  |  |  |  |  |  |  |  |
| 2.2 |  |  |  |  |  |  |  |  |  |  |
| 2.3 |  |  |  |  |  |  |  |  |  |  |
| **3. Ethics** |  |  |  |  |  |  |  |  |  |  |
| 3.1 |  |  |  |  |  |  |  |  |  |  |
| 3.2 |  |  |  |  |  |  |  |  |  |  |
| 3.3 |  |  |  |  |  |  |  |  |  |  |
| **4. Character** |  |  |  |  |  |  |  |  |  |  |
| 4.1 |  |  |  |  |  |  |  |  |  |  |
| 4.2 |  |  |  |  |  |  |  |  |  |  |
| 4.3 |  |  |  |  |  |  |  |  |  |  |
| **5. Other Skills** |  |  |  |  |  |  |  |  |  |  |
| … |  |  |  |  |  |  |  |  |  |  |
| … |  |  |  |  |  |  |  |  |  |  |
| … |  |  |  |  |  |  |  |  |  |  |

ด้านที่ ๔ ด้านลักษณะบุคคล : ให้หลักสูตรกำหนดคุณลักษณะพิเศษของนักศึกษา ตามคุณลักษณะบัณฑิตที่พึงประสงค์ หรืออื่น ๆ ที่เพิ่มเติมนอกเหนือจากเกณฑ์มาตรฐานวิชาชีพ

## Appendix 3.2 Table Showing Relationship between Program-Level Learning Outcomes (PLOs) and Learning Outcome Standards in Accordance with the Professional Council / Association of the field of study has defined the national qualification standards for professionals / field of study (If applicable)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Learning Outcome Standards in Accordance with the Professional Council** | **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **PLO7** | **PLO8** | **PLO9** | **.....** |
| 1 .................................................... |  |  |  |  |  |  |  |  |  |  |
| 2 .................................................... |  |  |  |  |  |  |  |  |  |  |
| 3 .................................................... |  |  |  |  |  |  |  |  |  |  |
| 4 ................................................... |  |  |  |  |  |  |  |  |  |  |
| … |  |  |  |  |  |  |  |  |  |  |

## Appendix 3.3 Relationship Between Program-Level Learning Outcomes (PLOs) and Stakeholder Needs/Expectations.

|  |  |  |
| --- | --- | --- |
| **Need/Expectations** | **key stakeholders** | **PLOs** |
| **Employers** | **Alumni** | **Current Student** | **...** | **PLO1** | **PLO2** | **PLO3** | **…** | **…** | **…** |
| 1. …………………………………… |  |  |  |  |  |  |  |  |  |  |
| 2. …………………………………… |  |  |  |  |  |  |  |  |  |  |
| 3. …………………………………… |  |  |  |  |  |  |  |  |  |  |
| ……………………………………… |  |  |  |  |  |  |  |  |  |  |

# Appendix 4Curriculum Mapping

**4.1 Curriculum Mapping**

**(Represented by Symbols I, R, P, M ,A)**

**and**

**4.2 Curriculum Mapping**

**(Represented by Symbols**

● Primary Responsibility 🌕 **Secondary Responsibility)**

หมายเหตุ : แสดงภาคผนวก ๔.๒ เฉพาะ

 กรณีที่สภาวิชาชีพ หรือ สมาคมวิชาการของสาขาวิชา

 ยังกำหนดให้ใช้มาตรฐาน ตามกรอบมาตรฐานคุณวุฒิ

 ระดับอุดมศึกษาแห่งชาติในรูปแบบเดิม

## Appendix 4.1 Curriculum Mapping

**Table 1 Compulsory Courses in Accordance with Study Plan**

|  |  |  |
| --- | --- | --- |
| **Course Codes & Course Titles** | **Number of Credits** | **Program-Level Learning Outcomes (PLOs)** |
| **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **PLO7** | **PLO8** | **…** |
| **First Year** |  |  |  |  |  |  |  |  |  |  |
| Semester i |  |  |  |  |  |  |  |  |  |  |
| xxxx xxx …………….. | a (x-y-z) |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Semester 2 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Second Year** |  |  |  |  |  |  |  |  |  |  |
| Semester 1 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Semester 2 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |  |
| **Third Year** |  |  |  |  |  |  |  |  |  |  |
| Semester 1 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Semester 2 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Fourth** |  |  |  |  |  |  |  |  |  |  |
| Semester 1 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Semester 2 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comprehensive/Exit Exam |  |  |  |  |  |  |  |  |  |  |

I = PLO is Introduced and Assessed A = PLOs are assessed

R = PLO is Reinforced and Assessed

P = PLO is Practiced and Assessed

M = Level of Mastery is Assessed

**Table 2 Electives in General Education Courses**

|  |  |  |
| --- | --- | --- |
| **Course Codes & Course Titles** | **Number of Credits** | **Program-Level Learning Outcomes (PLOs)** |
| **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **PLO7** | **PLO8** | **…** |
|  |  |  |  |  |  |  |  |  |  |  |
| xxxx xxx …………….. | a (x-y-z) |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |

**Table 3 Electives in Specific courses**

|  |  |  |
| --- | --- | --- |
| **Course Codes & Course Titles** | **Number of Credits** | **Program-Level Learning Outcomes (PLOs)** |
| **PLO1** | **PLO2** | **PLO3** | **PLO4** | **PLO5** | **PLO6** | **PLO7** | **PLO8** | **…** |
|  |  |  |  |  |  |  |  |  |  |  |
| xxxx xxx …………….. | a (x-y-z) |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |

## Appendix 4.2 Curriculum Mapping

 ● **Primary Responsibility** ○ **Secondary Responsibility**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Type / Course Code / Course Title** | **Number of Credits** | **Knowledge** | **Skills** | **Ethics** | **Character** | **Other Skills** |
| **1** | **2** | **3** | **4** | **1** | **2** | **3** | **4** | **1** | **2** | **3** | **4** | **1** | **2** | **3** | **4** | **1** | **2** | **3** | **4** |
| ⚫ General Education Courses  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ⚫ Specific Courses  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ⚫ Elective Courses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# Appendix 5Essence of Program RevisionB.E. ………………….

**Program Revision of....................................................................**

**Field of study ………………………. B.E. .............. Edition / Academic Year....................**

**Faculty ........................ Mahidol University**

----------------------------------------------

1. This program was approved by the Permanent Secretary, Ministry of Higher Education, Science and Innovation on ………………………………...... (date/month/year)

2. The University Council (specify institution) approved this revision at the meeting on …………………………………………………. (date/month/year)

3. This revised program is available to the students of academic year …………………………. from the …………………………. semester of academic year ………………………… onwards.

4. Reasons for Revision ……………………………………………………………………………………………………………………..

5. Essence of Revision

5.1 ……………………………………………………….

5.2 ……………………………………………………….

5.3 ……………………………………………………….

6. Program Structure after Revision

 (Answer sub-items 6.1 - 6.2 according to the level of program.)

 6.1 Compared to the Commission on Higher Education Standards’ criteria for bachelor’s degree level B.E. 2022, it appears as follows:

| **Courses** | **criteria for bachelor’s degree program B.E. 2022****(Program …)** | **Program......................** |
| --- | --- | --- |
| **Before Revision** | **After Revision** |
| **Bachelor’s degree Level** |  |  |  |
| * **General Education Courses**

**-** Social Sciences and Humanities- Language- Science and Mathematics- Health and Recreation |  |  |  |
| * **Specific Courses**

**-** Core Courses- Major Required courses- Major elective Courses |  |  |  |
| * **Free Electives**
 |  |  |  |
| **Total Number of credits throughout the program​ is not less than** |  |  |  |

**6.2 Compared to the Commission on Higher Education Standards’ criteria for graduated program B.E. 2022, it appears as follows:**

| **Courses** | **criteria for graduated program B.E. 2022****(Program …)** | **Program......................** |
| --- | --- | --- |
| **Before Revision** | **After Revision** |
| **Graduated Program** |  |  |  |
| * Compulsory Courses
 |  |  |  |
| * Elective Courses
 |  |  |  |
| * Thesis
 |  |  |  |
| **Total Number of credits throughout the program is not less than** |  |  |  |

# Appendix 6Details of Program Instructors

**Details of Program Instructors,**

**Full-Time and Part-Time Instructors**

## A. Instructors Responsible for the Program

**No.1**

1. Name-Surname **.............................................................................................................................**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Academic Position****(1)** | **Name​ – Surname****(Mr./Mrs./Ms.)** | **Highest​ Qualification****(2)** | **Program** | **Field of​ study** | **Graduate​ from​ (institution)** | **B.E.** |
|  |  | **- Doctoral Degree****- Higher Graduate Diploma****- Master Degree****- Graduate Diploma****- Bachelor Degree** |  |  |  |  |

**คำอธิบาย**

**1. ระบุตำแหน่งทางวิชาการ ชื่อ-นามสกุล กรณีอาจารย์มีวุฒิปริญญาเอก ให้ระบุ “ดร.” ต่อท้ายตำแหน่งทางวิชาการ**

**2. ระบุคุณวุฒิ (ชื่อย่อปริญญา) สาขาวิชา สถาบัน และปี พ.ศ. ที่สำเร็จการศึกษา ระดับอุดมศึกษา เรียงลำดับจากคุณวุฒิสูงสุด ถึงระดับปริญญาตรี**

 **- หากสำเร็จการศึกษาในประเทศไทย ให้เขียนเป็นภาษาไทยทั้งชื่อย่อปริญญา และชื่อสาขาวิชา**

 **- หากสำเร็จการศึกษาจากต่างประเทศ ให้เขียนเป็นภาษาอังกฤษทั้งชื่อย่อปริญญาและชื่อสาขาวิชา และระบุสถาบัน/ ประเทศ**

**2. Academic Works / Creative Works**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Qualification​ Level** | **Title of Academic​ works​ / Creative​ works** | **Criteria** | **Month/Year (B.E.) of Publication** |
| **Topic** | **Weighted Score** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**หมายเหตุ :**

**๑. รหัสระดับการศึกษาที่จบ (ระบุระดับ ป.เอก/ ป.บัณฑิตชั้นสูง/ ป.โท/ ป.บัณฑิต/ ป.ตรี)**

**๒. ลักษณะของผลงานทางวิชาการ**

 **-** ระดับปริญญาตรี**: ผลงานทางวิชาการที่ไม่ใช่ส่วนหนึ่งของการศึกษาเพื่อรับปริญญา และเป็นผลงานทางวิชาการที่ได้รับการเผยแพร่ ตามหลักเกณฑ์ที่กำหนดในการพิจารณาแต่งตั้งให้บุคคลดำรงตำแหน่งทางวิชาการอย่างน้อย ๑ รายการในรอบ ๕ ปีย้อนหลัง**

- ระดับบัณฑิตศึกษา**: ผลงานทางวิชาการที่ไม่ใช่ส่วนหนึ่งของการศึกษาเพื่อรับปริญญาและเป็นผลงานทางวิชาการที่ได้รับการเผยแพร่ตามหลักเกณฑ์ที่กำหนดในการพิจารณาแต่งตั้งให้บุคคลดำรงตำแหน่งทางวิชาการอย่างน้อย ๓ รายการในรอบ ๕ ปีย้อนหลัง โดยอย่างน้อย ๑ รายการต้องเป็นผลงานวิจัย**

**๓. การอ้างอิงผลงานทางวิชาการ: ให้เขียนตามรูปแบบบรรณานุกรม โดยระบุชื่อเจ้าของผลงาน ชื่อผลงาน ปีที่พิมพ์ และ แหล่งตีพิมพ์เผยแพร่ผลงานแยกตามประเภทผลงาน**

**3. Research interests or expertise**

1) .................................................................................................................

2) .................................................................................................................

3) .................................................................................................................

**4. Teaching Workload**

 **4.1 Current Teaching Workload**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Course Code** | **Course Title​** | **Number of Credits****(Theory – Practice - self-Study)** |
|  **1** |  |  |  |
|  **2** |  |  |  |

 **4.2 Teaching Workload in New / Revised Program Consisting of**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Course Code** | **Course Title​** | **Number of Credits****(Theory – Practice - self-Study)** |
|  **1** |  |  |  |
|  **2** |  |  |  |

**หมายเหตุ**:

- ระบุรหัสวิชาภาษาไทย ชื่อวิชาภาษาไทย จำนวนหน่วยกิต (ทฤษฎี-ปฏิบัติ-ศึกษาค้นคว้าด้วยตนเอง)

- ภาระงานสอนในหลักสูตรใหม่ / หลักสูตรปรับปรุง ขอให้ตรวจสอบรหัสวิชา ชื่อวิชา และจำนวนหน่วยกิต ให้ตรงกับที่ระบุไว้ในหมวด ๓ ข้อ ๓.๑.๓ รายวิชาในหลักสูตรและระบุเฉพาะรายวิชาที่ปรากฏในโครงสร้างหลักสูตรเท่านั้น

**5. Others ..........................................................................**

## B. Program Instructors

**No.1**

1. Name-Surname **.............................................................................................................................**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Academic Position****(1)** | **Name​ – Surname****(Mr./Mrs./Ms.)** | **Highest​ Qualification****(2)** | **Program** | **Field of​ study** | **Graduate​ from​ (institution)** | **B.E.** |
|  |  | **- Doctoral Degree****- Higher Graduate Diploma****- Master Degree****- Graduate Diploma****- Bachelor Degree** |  |  |  |  |

**คำอธิบาย**

**1. ระบุตำแหน่งทางวิชาการ ชื่อ-นามสกุล กรณีอาจารย์มีวุฒิปริญญาเอก ให้ระบุ “ดร.” ต่อท้ายตำแหน่งทางวิชาการ**

**2. ระบุคุณวุฒิ (ชื่อย่อปริญญา) สาขาวิชา สถาบัน และปี พ.ศ. ที่สำเร็จการศึกษา ระดับอุดมศึกษา เรียงลำดับจากคุณวุฒิสูงสุด ถึงระดับปริญญาตรี**

 **- หากสำเร็จการศึกษาในประเทศไทย ให้เขียนเป็นภาษาไทยทั้งชื่อย่อปริญญา และชื่อสาขาวิชา**

 **- หากสำเร็จการศึกษาจากต่างประเทศ ให้เขียนเป็นภาษาอังกฤษทั้งชื่อย่อปริญญาและชื่อสาขาวิชา และระบุสถาบัน/ ประเทศ**

**2. Academic Works / Creative Works**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Qualification​ Level** | **Title of Academic​ works​ / Creative​ works** | **Criteria** | **Month/Year (B.E.) of Publication** |
| **Topic** | **Weighted Score** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**หมายเหตุ :**

**๑. รหัสระดับการศึกษาที่จบ (ระบุระดับ ป.เอก/ ป.บัณฑิตชั้นสูง/ ป.โท/ ป.บัณฑิต/ ป.ตรี)**

**๒. ลักษณะของผลงานทางวิชาการ**

 **-** ระดับปริญญาตรี**: ผลงานทางวิชาการที่ไม่ใช่ส่วนหนึ่งของการศึกษาเพื่อรับปริญญา และเป็นผลงานทางวิชาการที่ได้รับการเผยแพร่ ตามหลักเกณฑ์ที่กำหนดในการพิจารณาแต่งตั้งให้บุคคลดำรงตำแหน่งทางวิชาการอย่างน้อย ๑ รายการในรอบ ๕ ปีย้อนหลัง**

- ระดับบัณฑิตศึกษา**: ผลงานทางวิชาการที่ไม่ใช่ส่วนหนึ่งของการศึกษาเพื่อรับปริญญาและเป็นผลงานทางวิชาการที่ได้รับการเผยแพร่ตามหลักเกณฑ์ที่กำหนดในการพิจารณาแต่งตั้งให้บุคคลดำรงตำแหน่งทางวิชาการอย่างน้อย ๓ รายการในรอบ ๕ ปีย้อนหลัง โดยอย่างน้อย ๑ รายการต้องเป็นผลงานวิจัย**

**๓. การอ้างอิงผลงานทางวิชาการ: ให้เขียนตามรูปแบบบรรณานุกรม โดยระบุชื่อเจ้าของผลงาน ชื่อผลงาน ปีที่พิมพ์ และ แหล่งตีพิมพ์เผยแพร่ผลงานแยกตามประเภทผลงาน**

**3. Research interests or expertise**

1) .................................................................................................................

2) .................................................................................................................

3) .................................................................................................................

**4. Teaching Workload**

 **4.1 Current Teaching Workload**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Course Code** | **Course Title​** | **Number of Credits****(Theory – Practice - self-Study)** |
|  **1** |  |  |  |
|  **2** |  |  |  |

 **4.2 Teaching Workload in New / Revised Program Consisting of**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Course Code** | **Course Title​** | **Number of Credits****(Theory – Practice - self-Study)** |
|  **1** |  |  |  |
|  **2** |  |  |  |

**หมายเหตุ**:

- ระบุรหัสวิชาภาษาไทย ชื่อวิชาภาษาไทย จำนวนหน่วยกิต (ทฤษฎี-ปฏิบัติ-ศึกษาค้นคว้าด้วยตนเอง)

- ภาระงานสอนในหลักสูตรใหม่ / หลักสูตรปรับปรุง ขอให้ตรวจสอบรหัสวิชา ชื่อวิชา และจำนวนหน่วยกิต ให้ตรงกับที่ระบุไว้ในหมวด ๓ ข้อ ๓.๑.๓ รายวิชาในหลักสูตรและระบุเฉพาะรายวิชาที่ปรากฏในโครงสร้างหลักสูตรเท่านั้น

**5. Others ..........................................................................**

## C. List of Special Instructors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Name - Surname** | **Academic Position​ / Title** | **Qualifications and​ Institution of​ Graduation** | **Affiliated Agency** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Weighted score of Academic Works**

|  |  |  |
| --- | --- | --- |
| **No.** | **Criteria for Academic Works** | **Weighted Score** |
| 1 | Creative Works published at the international cooperation level | 0.8 |
| 2 | Nationally published creative works | 0.6 |
| 3 | Internationally published creative works | 1 |
| 4 | Creative​ works​ published​ at​ the​ ASEAN regional level | 1 |
| 5 | Creative​ works​ published​ at​ the​ institutional level | 0.4 |
| 6 | Creative works released to the public in any manner, or through online electronic media | 0.2 |
| 7 | Textbooks or books that have been assessed through the criteria for application for​ academic​ positions | 1 |
| 8 | Textbooks or books that have been considered according to the​ criteria for assessment of​ academic positions but have not been used​ to apply for academic positions | 1 |
| 9 | Research articles or academic articles published in academic journals available in Database group II | 0.6 |
| 10 | Complete research or academic articles published in the report as a result of a national conference | 0.2 |
| 11 | Complete research or academic articles published in the report as a result ofan international conference, or in national academic journals available in the databases according to the Announcement or Regulation of Higher EducationCommission on the Criteria for Consideration of Academic Journals for Dissemination of Academic works B.E. 2556 (2013) | 0.4 |
| 12 | Research or academic articles published in international journals available in the databases according to the Announcement or Regulation of Higher Education Commission on Criteria for Consideration of Academic Journals for Dissemination of Academic Works B.E. 2556 (2013)  | 1 |
| 13 | Research or academic articles published in international journals that are available in the databases according to the Announcement or Regulation of Higher Education Commission on the Criteria for Consideration of Academic Journals for dissemination of Academic Works, B.E. 2556 (2013); however, the institution proposes these articles to the institution council for approval then prepares an announcement for general acknowledgement and notifies Higher Education Commission or Commission for Civil Service in Higher Education Institutions for acknowledgement within 30 days from the announcement date; these articles are neither available in Beall’s list nor published in academic journals which are found in TCI Databases Group I. | 0.8 |
| 14 | Experience from an establishment (workplace) | 1  |
| 15 | Discovery of new plant or animal species that have been registered  | 1 |
| 16 | Patented works | 1 |
| 17 | Research works granted a petty patent | 0.4 |
| 18 | Research works from a project hired by a national agency or organization | 1 |
| 19 | Academic works contributing to society that have been assessed through the criteria for applying for academic positions | 1 |

# Appendix 7Mahidol University Regulation on Diploma and Undergraduate Studies B.E……………….of the University and Announcements / Regulations on Education Affairs of Working Units

# Appendix 8Orders of Program Development Committee and Committee or Responsible Lecturers for Program Review Process of Working Units

# Appendix 9Documents on the International Standard of the Program(If any)

# Appendix 10Documents on Collaboration ofDomestic and Foreign Agencies (MOU)(if any)

# Other Appendices