



## ASIIN Accreditation Document

Bachelor of Informatics Engineering (BIE)

NOVEMBER 2022

Faculty of Engineering  
University of Mataram



**CURRICULUM DOCUMENT  
BACHELOR OF INFORMATICS ENGINEERING  
(BIE)**



**FACULTY OF ENGINEERING  
UNIVERSITY OF MATARAM  
INDONESIA**

**MATARAM, LOMBOK, WEST NUSA TENGGARA  
NOVEMBER 2022**

## **PREFACE**

Bachelor of Informatics Engineering (BIE), Faculty of Engineering, University of Mataram, is an informatics engineering study program. It is located in Mataram, Lombok, West Nusa Tenggara. This study program has the primary objective of producing graduates who can make a real contribution in the era of rapid technological development. To produce graduates with reliable competencies, BIE needs to develop a structured curriculum according to the needs of various stakeholders, the community, and the government.

This curricular document contains the curriculum foundation, curriculum evaluation mechanism, and other technical aspects related to the BIE curriculum, as material for publication, analysis, and evaluation. All inputs and suggestions regarding this document that the readers would like to convey will be gladly accepted.

Mataram, November 2022.

The Documentation Team

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## **CHAPTER 1**

### **BIE PROFILE**

#### **1.1. BIE Brief Information**

Bachelor of Informatics Engineering (BIE) is one of study programs in the Faculty of Engineering, University of Mataram, a public university in Indonesia, established in 1962. BIE was established in 2012 with approximately 100 new students being admitted each year. It is located in Mataram, West Nusa Tenggara, Indonesia. Table 1.1 shows brief information about BIE.

**Table 1.1 BIE General Information**

|   |                     |   |
|---|---------------------|---|
| 1 | Name of University  | University of Mataram / Universitas Mataram                   |
| 2 | Type of University  | Public University   |
| 3 | Faculty             | Engineering   |
| 4 | Study Program       | Informatics Engineering (Bachelor)                            |
| 5 | Number of Lecturers | 19  |
| 6 | Address             | Jl. Majapahit 62 Mataram, West Nusa Tenggara, Indonesia       |
| 7 | Phone               | (+62370) 631712   |
| 8 | Website Address     | <a href="https://if.unram.ac.id/">https://if.unram.ac.id/</a> |
| 9 | Graduate Degree     | S.Kom.<br>(Bachelor of Computer Science)                      |

#### **1.2. BIE Vision**

To produce high-valued graduates, BIE holds the vision of:

"To become a study program to support high quality research and development in the field of information and communication technology at national level and recognised internationally."

### **1.3. BIE Mission**

BIE contrives some missions, which are:

1. Producing graduates who are competitive, professional, proficient, and entrepreneurial with noble character through implementation of standardised outcome-based curriculum.
2. Establishing an excellent, up-to-date, and world-class and cross-sectoral research in the fields of informatics engineering.
3. Providing community services based on research outputs to improve the quality of community.
4. Strengthening cooperation with many institutions in Indonesia and/or overseas.
5. Strengthening human resources and establishing an effective management of the institution.

### **1.4. BIE Objectives**

The objectives of BIE are:

1. Implementing a standardised outcome-based curriculum and providing excellent academic staffs and facilities for a constructive teaching and learning process
2. Producing professional graduates who are innovative, creative, competitive, having noble character, having entrepreneurial spirit, and proficient in the field of information technology.
3. Creating a research centre of excellence in the fields of informatics engineering fields that supports the implementation of cross-sector research.
4. Producing publications, intellectual property rights, and appropriate technology on a national and international scale.
5. Disseminating research that is beneficial for society.
6. Strengthening and increasing cooperation in the three pillars of higher education with national and foreign institutions.

## **CHAPTER 2**

### **PROGRAM EDUCATION OBJECTIVE AND PROGRAM LEARNING OUTCOMES**

BIE Program Education Objectives are stated on the basis of the vision and missions of BIE, the tracer study and stakeholders' feedbacks.

#### **2.1. Program Education Outcome (PEO)**

BIE is dedicated to support local genius, strive to produce graduates who are competent in Information Technology (IT) having characteristics of:

- Innovative, creative, strong leadership, good at communication and teamwork, and actively involved in the global technology development;
- Able to analyse and solve IT-related problems and having an entrepreneurial spirit to improve the quality of life of the local community, specifically in West Nusa Tenggara.

BIE defines Qualification Profile (QP) as soft and hard skills covering the following points.

- **Attitude and Leadership.** Having professional ethics and high integrity; good team management and networking; ready for sustainable learning to assure sophisticated qualification.
- **Knowledge and Technology.** Having good basic knowledge of IT as well as being experienced in applying research/projects with advanced technologies supported by communication and leadership skills.

With those two objectives, the graduates can participate in the following working area (Table 2.1). Table 2.1 describes BIE graduates' profile and their description. In Table 2.1, each graduate profile is nicknamed GP which stands for Graduate Profile.

**Table 2.1 BIE University of Mataram Graduate Profiles and Their Descriptions**

| <b>ID</b>  | <b>Graduate Profiles (GP)</b>                                   | <b>Description</b>  |
|------------|---|---|
| <b>GP1</b> | Entrepreneurs or IT-related Issue Support                       | The graduates have good attitude, communication, and leadership skills, able to manage efficient and professional teamwork, establish a collaboration network, initiate and manage their own business, and prepare for sustainable learning to ensure sophisticated qualifications. The IT-related Issue Supports are non-IT-specific professions that gained from their IT skills mastery. |
| <b>GP2</b> | Software Developer  | The graduates have skills to design, develop, maintain, and manage an effective system (stand-alone, web-based, and/or mobile applications) and to keep the system secure, graduates can work in the profit and non-profit institutions such as banks, telecommunication, public services, and IT specialists.  |
| <b>GP3</b> | Academician, Researcher, or Information Technology Professional | The graduates have skills to analyse a system, propose development strategies, and implement integrated IT technologies to find an optimal solution, graduates can work as IT specialists, and infrastructure planners.   |
| <b>GP4</b> | Intelligent System Developer                                    | The graduates have knowledge and skills to mine data (image, speech, video, text, numeric) in a huge size, graduates can develop smart software to analyse and visualise valued information from the available data.  |
| <b>GP5</b> | Network Infrastructure Developer                                | The graduates have skills to design network architecture and IoT systems; maintain, manage distributed computing and network resources, and ensure that the network and the data within it are secure; graduates can work on a big IT company, and be a network and/or cyber security planner/consultant.   |

## **2.2. Program Learning Outcome (PLO)**

Program Learning Outcome (PLO) represents capabilities mastered by the graduates. These capabilities describe the teaching-learning process in the study program. These PLOs are basically derived from the Program Education Objectives that must be achieved. Table 2.2 suggests the PLO formulated by BIE. Meanwhile Table 2.3 presents the correlation matrix between PLO and ASIIN SSC (Subject

Specific Criteria) for computer-science-related study program. In this section, Table 2.4 indicates which Program Learning Outcome items that support the Graduate Profiles (GP) of BIE.

In Table 2.2, the numbers inside parentheses at the end of each PLO statements are the subsection heading number in ASIIN SSC. The PLO formulated by BIE is referred to ASIIN Subject-Specific Criteria for the Informatics/Computer Science field. According to curriculum guideline of the Directorate General of Higher Education (DGHE) Ministry of Education, Culture, Research, and Technology, the PLOs are grouped to Attitudes, Skills, and Knowledge.

Table 2.2 Program Learning Objectives (PLO) of BIE Graduates

| <b>Attitude</b> |   |
|-----------------|---|
| PLO1            | <p><b><i>Humanitarian and Social Awareness.</i></b><br/>Having ability to solve humanitarian and social issues, open minded, and concerned with academic/ professional ethics. (2.1.5)</p>  |
| PLO2            | <p><b><i>Professional, Responsibility, and Sustainable Learning</i></b><br/>Demonstrate professional attitude in boundary conditions; having ability and responsibility to work independently and/or as a team; and be ready for sustainability learning. (2.1.2, 2.1.5)</p>  |
| <b>Skills</b>   |   |
| PLO3            | <p><b><i>Leadership and Communication.</i></b><br/>Having managerial and communication skills to maintain their subordinates. In addition, the communicative skills (written and oral) will support their role to initiate and expand collaboration networks with their former supervisors, colleagues, and potential partners inside and/or across the institution/ country and manage possible conflicts. (2.1.6)</p> |
| PLO4            | <p><b><i>Entrepreneurship Experiences.</i></b><br/>Having competence to run business with the support of information technology to evaluate its progress by applying data analysis knowledge. (2.1.5)</p>   |
| PLO5            | <p><b><i>Information Technology Knowledge.</i></b><br/>Having ability to develop an IT system based on the recent evaluation; then evaluate performance improvement of the updated system. (2.1.2, 2.1.3, 2.1.4)</p>  |

|                  |  |
|------------------|--|
| PLO6             | <b>Scientific Logic.</b><br>Having critical thinking analysis skill to innovate on the basis of their obtained knowledge and technology. In addition, the graduates are also urged to write scientific papers. (2.1.2, 2.1.6)                              |
| <b>Knowledge</b> |  |
| PLO7             | <b>Fundamental and Engineering Knowledge.</b><br>Having strong basic knowledge (mathematics, computations, statistics, system computer, and network) and solving complex problems related to informatics engineering. (2.1.1, 2.1.2)                       |
| PLO8             | <b>Data Engineering Solution.</b><br>Having knowledge and expertise as a data analyst and/or data engineer; AI system developers; IoT developers; information system developers; system administrators; and database administrators. (2.1.1, 2.1.2, 2.1.3) |
| PLO9             | <b>Knowledge of Contemporary Issues and Local Wisdom.</b><br>Having full awareness on local-community issues such as physical resources and human resources; being able to solve and evaluate local-community problems using advanced technology. (2.1.6)  |

Table 2.3 Correlation Matrix between PLO and ASIIN SSC for Computer Science Study Program

| No | ASIIN Subject-Specific-Criteria                                      | PLOs |   |   |   |   |   |   |   |   |
|----|--|------|---|---|---|---|---|---|---|---|
|    |  | 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Formal, Algorithmic and Mathematical Competencies                    | ✓    | ✓ |   | ✓ |   |   |   |   |   |
| 2. | Analysis, Design, Implementation and Project Management Competencies |      |   | ✓ |   | ✓ | ✓ | ✓ |   |   |
| 3. | Technological Competencies   |      |   |   |   | ✓ |   |   | ✓ |   |
| 4. | Methodological and Transfer Competencies                             |      |   |   |   |   | ✓ |   |   |   |
| 5. | Interdisciplinary Competencies                                       | ✓    | ✓ |   | ✓ |   |   |   |   |   |
| 6. | Social Competencies and Self-Competencies                            |      |   |   | ✓ |   |   | ✓ |   | ✓ |

**Table 2.4 Program Learning Outcomes that Support the Graduate Profile (GP)**

| <b>Program Learning Outcome (PLO)</b> | <b>Graduate Profile (GP)</b>                                  |            |            |            |            |
|---------------------------------------|---|------------|------------|------------|------------|
|                                       | <b>GP1</b>  | <b>GP2</b> | <b>GP3</b> | <b>GP4</b> | <b>GP5</b> |
| <b>Attitude</b>                       |   |            |            |            |            |
| PLO1                                  | <i>Humanitarian, Social Awareness,</i>                        | √          | √          | √          |            |
| PLO2                                  | <i>Professional, Responsibility, and Sustainable Learning</i> | √          | √          | √          | √          |
| <b>Skills</b>                         |   |            |            |            |            |
| PLO3                                  | <i>Leadership and Communication</i>                           | √          | √          | √          | √          |
| PLO4                                  | <i>Entrepreneurship Experiences</i>                           | √          | √          | √          |            |
| PLO5                                  | <i>Information Technology Knowledge</i>                       | √          | √          | √          | √          |
| PLO6                                  | <i>Scientific Logic</i>                                       | √          | √          | √          | √          |
| <b>Knowledge</b>                      |   |            |            |            |            |
| PLO7                                  | <i>Fundamental and Engineering Knowledge</i>                  | √          | √          | √          | √          |
| PLO8                                  | <i>Data Engineering Solution</i>                              |            | √          | √          |            |
| PLO9                                  | <i>Knowledge of Contemporary Issues and Local Wisdom</i>      | √          | √          | √          |            |

\* GP stands for Graduate Profile. The BIE Graduate Profile refers to Table 2.1.

## **CHAPTER 3**

### **CURRICULUM STRUCTURE**

Table 3.1 provides the distribution of BIE courses in its curriculum. There are various types of BIE courses: M (Mandatory), CE (Concentration Elective), and FE (Free Elective). To graduate from BIE, a student should at least complete the 144 SKS courses. SKS is Indonesia Credit Unit System. 1 SKS equals 170 minutes x 14 weeks of the class meeting. Considering that 1 ECTS equals 25 hours of study, 144 SKS is equivalent to 228 ECTS. Detail equivalence of SKS to ECTS for each course is presented in Table 3.1. The conversion factor for 1 SKS  $\approx$  1.59 ECTS. BIE distributes courses about  $\pm$  18 SKS per semester. Nevertheless, BIE allows students to take courses with allocated credits up to 24 SKS in a semester to facilitate students with a fast-learning phase. In this case, students must show an excellent academic grade.

Table 3.1 presents the BIE curriculum which also describes the distribution of the BIE courses in each semester. As a recall, BIE has some Program Learning Objectives (PLO) shown in Table 2.2. To help the reader quickly understand the relationship between BIE courses and their PLO, in Table 3.1, columns to formulate the correlation of BIE courses to BIE PLOs are provided and described in Table 2.2.

Table 3.1 Course Distribution of Informatics Engineering Study Program

| No | Course ID | Name of Course                         | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|--|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |  |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |  |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 1  | W22K12    | Information Technology Introduction    | M    | 1   | 2   | 3,2  | -                              | 0,1  | -     | -    | 0,2  | -    | 0,4       | -    | 0,3  |
| 2  | W22K11    | Informatic Logic                       | M    | 1   | 3   | 4,8  | -                              | 0,1  | -     | -    | -    | 0,6  | 0,3       | -    | -    |
| 3  | W22K13    | Digital System                         | M    | 1   | 3   | 4,8  | -                              | 0,2  | -     | -    | -    | 0,2  | 0,3       | 0,3  | -    |
| 4  | W22P11    | Interpersonal Skill                    | M    | 1   | 2   | 3,2  | 0,3                            | 0,3  | 0,4   | -    | -    | -    | -         | -    | -    |
| 5  | W22P12    | Technopreneurship                      | M    | 1   | 2   | 3,2  | 0,2                            | -    | 0,3   | 0,3  | -    | -    | -         | -    | 0,2  |
| 6  | W22U12    | Pancasila                              | M    | 1   | 2   | 3,2  | 0,5                            | 0,5  | -     | -    | -    | -    | -         | -    | -    |
| 7  | W22U11    | Calculus                               | M    | 1   | 3   | 4,8  | -                              | -    | -     | -    | 0,2  | 0,2  | 0,3       | 0,3  | -    |
| 8  | W22U13    | Religion Education                     | M    | 1   | 2   | 3,2  | 0,2                            | 0,4  | 0,4   | -    | -    | -    | -         | -    | -    |
| 9  | W22B23    | Computer Architecture and Organization | M    | 2   | 3   | 4,8  | 0,2                            | -    | -     | -    | 0,3  | -    | 0,3       | 0,2  | -    |
| 10 | W22B22    | Discrete Mathematic                    | M    | 2   | 3   | 4,8  | -                              | -    | -     | -    | -    | 0,3  | 0,5       | 0,2  | -    |

| No | Course ID | Name of Course               | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|------------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                              |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                              |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 11 | W22B21    | Linear Algebra               | M    | 2   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,2  | 0,4       | 0,4  | -    |
| 12 | W22K22    | Algorithm and Programming    | M    | 2   | 4   | 6,4  | -                              | 0,25 | -     | -    | -    | 0,3  | 0,2       | 0,25 | -    |
| 13 | W22K21    | Probability and Statistic    | M    | 2   | 3   | 4,8  | -                              | -    | -     | -    | -    | 0,3  | 0,5       | 0,2  | -    |
| 14 | W22P21    | Computer and Society         | M    | 2   | 2   | 3,2  | -                              | 0,3  | -     | -    | 0,5  | -    | -         | -    | 0,2  |
| 15 | W22U22    | English                      | M    | 2   | 2   | 3,2  | 0,3                            | 0,2  | 0,5   | -    | -    | -    | -         | -    | -    |
| 16 | W22U21    | Citizenship                  | M    | 2   | 2   | 3,2  | 0,5                            | 0,5  | -     | -    | -    | -    | -         | -    | -    |
| 17 | W22B31    | Algorithm and Data Structure | M    | 3   | 3   | 4,8  | -                              | -    | -     | -    | -    | 0,2  | 0,55      | 0,25 | -    |
| 18 | W22B35    | Information System           | M    | 3   | 3   | 4,8  | 0,2                            | -    | -     | 0,25 | 0,25 | -    | -         | -    | 0,3  |
| 19 | W22B36    | Operating System             | M    | 3   | 3   | 4,8  | -                              | -    | -     | -    | 0,3  | 0,2  | 0,5       | -    | -    |
| 20 | W22B32    | Human Computer Interaction   | M    | 3   | 2   | 3,2  | -                              | 0,2  | -     | -    | 0,4  | -    | 0,4       | -    | -    |
| 21 | W22B34    | Database System              | M    | 3   | 3   | 4,8  | -                              | -    | -     | -    | 0,3  | 0,2  | 0,2       | 0,3  | -    |

| No | Course ID | Name of Course                           | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|--|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |  |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |  |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 22 | W22B33    | Computer Network                         | M    | 3   | 3   | 4,8  | -                              | -    | -     | -    | 0,3  | 0,2  | 0,3       | 0,2  | -    |
| 23 | W22K31    | Numerical Method                         | M    | 3   | 3   | 4,8  | -                              | 0,1  | -     | -    | 0,2  | 0,3  | 0,4       | -    | -    |
| 24 | W22B45    | File System                              | M    | 4   | 3   | 4,8  | -                              | -    | -     | -    | 0,2  | 0,4  | 0,2       | 0,2  | -    |
| 25 | W22B41    | Object Oriented Programming and Analysis | M    | 4   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,2       | 0,2  | -    |
| 26 | W22B44    | Software Engineering                     | M    | 4   | 3   | 4,8  | -                              | -    | -     | 0,2  | 0,4  | -    | 0,4       | -    | -    |
| 27 | W22B43    | Digital Image Processing                 | M    | 4   | 3   | 4,8  | -                              | -    | -     | -    | -    | 0,3  | 0,4       | 0,3  | -    |
| 28 | W22B42    | Web Programming                          | M    | 4   | 3   | 4,8  | -                              | 0,2  | 0,2   | -    | 0,3  | -    | 0,3       | -    | -    |
| 29 | W22P41    | Parallel Processing                      | E    | 4   | 3   | 4,8  | -                              | 0,2  | -     | -    | 0,4  | -    | 0,4       | -    | -    |
| 30 | W22U41    | Scientific Paper Writing                 | M    | 4   | 2   | 3,2  | 0,2                            | 0,2  | 0,6   | -    | -    | -    | -         | -    | -    |
| 31 | K22B53    | Artificial Intelligence                  | CE   | 5   | 3   | 4,8  | -                              | -    | -     | -    | 0,1  | 0,3  | 0,3       | 0,3  | -    |

| No | Course ID | Name of Course                      | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|-------------------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                                     |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                                     |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 32 | K22B54    | Object Oriented Programming         | CE   | 5   | 3   | 4,8  | -                              | 0,2  | 0,2   | -    | 0,3  | -    | 0,3       | -    | -    |
| 33 | K22B52    | Information Technology Security     | CE   | 5   | 2   | 3,2  | -                              | -    | -     | -    | 0,2  | 0,2  | 0,3       | 0,3  | -    |
| 34 | K22B56    | Research on Information Technology  | CE   | 5   | 2   | 3,2  | -                              | 0,2  | -     | -    | 0,3  | 0,4  | -         | -    | 0,1  |
| 35 | K22B55    | Operational Research                | CE   | 5   | 2   | 3,2  | -                              | 0,2  | -     | -    | 0,2  | 0,3  | 0,3       | -    | -    |
| 36 | K22B57    | Formal Language and Automata Theory | CE   | 5   | 3   | 4,8  | -                              | -    | -     | -    | -    | 0,3  | 0,6       | 0,1  | -    |
| 37 | K22B51    | Big Data                            | CE   | 5   | 3   | 4,8  | -                              | 0,2  | -     | -    | 0,4  | -    | 0,4       | -    | -    |
| 38 | K22U51    | Professional Ethic                  | CE   | 5   | 2   | 3,2  | 0,2                            | 0,3  | 0,3   | -    | -    | -    | 0,2       | -    | -    |
| 39 | K22B61    | Internet of Things (IoT)            | CE   | 6   | 2   | 3,2  | -                              | 0,2  | -     | -    | 0,4  | -    | 0,4       | -    | -    |
| 40 | K22B62    | Modelling and Simulation            | CE   | 6   | 3   | 4,8  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,4       | -    | -    |

| No | Course ID | Name of Course                | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|-------------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                               |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                               |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 41 | K22B63    | Visual Programming            | CE   | 6   | 3   | 4,8  | -                              | -    | -     | -    | 0,3  | 0,4  | 0,3       | -    | -    |
| 42 | W22B61    | Practical Work                | M    | 6   | 2   | 3,2  | -                              | 0,1  | 0,2   | 0,2  | 0,2  | 0,2  | -         | -    | 0,1  |
| 43 | K22B64    | Distributed System            | CE   | 6   | 3   | 4,8  | -                              | -    | -     | -    | 0,2  | 0,2  | 0,3       | 0,3  | -    |
| 44 | K22P61    | Fuzzy Logic                   | CE   | 6   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,3       | 0,4  | -    |
| 45 | K22P62    | Mobile Programming            | CE   | 6   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | 0,1  | 0,3       | 0,2  | -    |
| 46 | P22B08    | Mobile Ad Hoc Network         | FE   | 7   | 2   | 3,2  | -                              | -    | -     | -    | 0,2  | 0,3  | 0,3       | 0,2  | -    |
| 47 | P22C09    | Advanced Web Programming      | FE   | 7   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,4  | 0,3       | -    | -    |
| 48 | P22C03    | Engineering Economy           | FE   | 7   | 2   | 3,2  | -                              | 0,2  | 0,25  | 0,25 | -    | -    | -         | -    | 0,3  |
| 49 | P22C12    | Enterprise Information System | FE   | 7   | 2   | 3,2  | -                              | 0,2  | -     | 0,2  | 0,3  | -    | -         | -    | 0,3  |
| 50 | P22C15    | IT Governance                 | FE   | 7   | 2   | 3,2  | 0,1                            | 0,1  | -     | 0,25 | 0,25 | -    | -         | -    | 0,3  |
| 51 | P22B10    | Database Technology           | FE   | 7   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | -    | 0,3       | 0,3  | -    |

| No | Course ID | Name of Course                 | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|--------------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                                |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                                |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 52 | K22B71    | Internet Programming           | CE   | 7   | 3   | 4,8  | -                              | -    | -     | -    | 0,2  | 0,3  | 0,2       | 0,3  | -    |
| 53 | W22B71    | Final Project I                | M    | 7   | 2   | 3,2  | -                              | 0,1  | 0,1   | -    | 0,2  | 0,2  | 0,1       | 0,2  | 0,1  |
| 54 | W22L71    | Field Study Service            | M    | 7   | 4   | 6,4  | 0,2                            | 0,2  | 0,2   | 0,3  | -    | -    | -         | -    | 0,1  |
| 55 | K22P71    | Artificial Neural Network      | CE   | 7   | 2   | 3,2  | -                              | 0,1  | -     | -    | -    | 0,2  | 0,3       | 0,4  | -    |
| 56 | K22U71    | Software Development Project   | CE   | 7   | 2   | 3,2  | -                              | 0,3  | 0,3   | -    | 0,3  | -    | 0,1       | -    | -    |
| 57 | P22A10    | Geospatial Information System  | FE   | 7   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,3  | -         | -    | 0,4  |
| 58 | P22C05    | Industrial Management          | FE   | 8   | 2   | 3,2  | -                              | 0,2  | 0,2   | 0,3  | -    | -    | -         | -    | 0,3  |
| 59 | P22A09    | Pattern Recognition            | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,2  | 0,3       | 0,4  | 0,1  |
| 60 | P22A11    | Steganography and Watermarking | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,4       | 0,3  | -    |

| No | Course ID | Name of Course                      | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|-------------------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                                     |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                                     |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 61 | P22B01    | Network Analysis and Planning       | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,2  | 0,3  | 0,2       | 0,3  | -    |
| 62 | P22C01    | 3D Animation                        | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | -    | 0,3       | 0,4  | -    |
| 63 | P22B06    | Advanced Computer Network           | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,2  | 0,2       | 0,3  | -    |
| 64 | P22C06    | Software Management                 | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,2       | 0,2  | -    |
| 65 | P22C07    | Mobile Game                         | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | 0,3  | 0,2       | -    | 0,1  |
| 66 | P22B09    | Mobile Security                     | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,1       | 0,3  | -    |
| 67 | P22A05    | Machine Learning                    | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,3       | 0,4  | -    |
| 68 | M22K07    | Independent Platform Programming    | MB   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | 0,3  | 0,2       | -    | 0,1  |
| 69 | P22A01    | Artificial Intelligence Application | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,2  | 0,3       | 0,4  | 0,1  |
| 70 | W22B81    | Final Project II                    | M    | 8   | 4   | 6,4  | -                              | 0,1  | 0,1   | -    | 0,2  | 0,2  | 0,1       | 0,2  | 0,1  |

| No | Course ID | Name of Course          | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|-------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                         |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                         |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 71 | P22B07    | Wireless Network        | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | 0,3  | 0,2       | -    | 0,1  |
| 72 | Closed    | Compression Method      | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,3       | 0,4  | -    |
| 73 | P22C08    | Game Programming        | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | 0,3  | 0,2       | -    | 0,1  |
| 74 | P22C11    | Interaction Engineering | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,4       | -    | -    |
| 75 | P22C13    | Multimedia System       | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,4  | -    | 0,2       | 0,3  | 0,1  |
| 76 | P22C14    | Smart City System       | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,2       | -    | 0,2  |
| 77 | P22A06    | Text Processing         | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,2  | 0,3       | 0,5  | -    |
| 78 | P22A03    | Feature Extraction      | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,4  | 0,3       | 0,3  | -    |
| 79 | P22A02    | Bioinformatics          | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,3       | 0,4  | -    |
| 80 | P22A08    | Audio Processing        | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,3       | 0,4  | -    |
| 81 | P22C02    | E-Business              | FE   | 8   | 2   | 3,2  | -                              | 0,2  | 0,1   | 0,2  | -    | 0,25 | -         | -    | 0,25 |

| No | Course ID | Name of Course                 | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|--------------------------------|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |                                |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |                                |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 82 | P22B02    | Internet of Things Application | FE   | 8   | 2   | 3,2  | -                              | 0,2  | -     | -    | 0,4  | -    | -         | 0,4  | -    |
| 83 | P22B05    | Data Mining                    | FE   | 8   | 2   | 3,2  | -                              | 0,2  | -     | -    | -    | 0,4  | -         | 0,4  | -    |
| 84 | P22A07    | Digital Signal Processing      | FE   | 8   | 2   | 3,2  | -                              | -    | -     | -    | -    | 0,3  | 0,3       | 0,4  | -    |
| 85 | M22K04    | Work Ethic and Culture         | MB   | 8   | 2   | 3,2  | 0,2                            | 0,3  | 0,3   | -    | -    | -    | -         | -    | 0,2  |
| 86 | M22K09    | Future Science Technology      | MB   | 8   | 2   | 3,2  | -                              | -    | -     | -    | 0,2  | 0,2  | 0,2       | -    | 0,4  |
| 87 | M22K03    | Advanced Engineering Economics | MB   | 8   | 3   | 4,8  | -                              | 0,3  | -     | 0,4  | -    | -    | -         | -    | 0,3  |
| 88 | M22K06    | Advanced Technopreneurship     | MB   | 8   | 3   | 4,8  | 0,2                            | 0,2  | 0,2   | 0,2  | -    | -    | -         | -    | 0,2  |
| 89 | M22K05    | Advanced Interpersonal Skill   | MB   | 8   | 2   | 3,2  | 0,3                            | 0,3  | 0,3   | -    | -    | -    | -         | -    | 0,1  |
| 90 | M22K02    | International Language         | MB   | 8   | 4   | 6,4  | 0,3                            | 0,3  | 0,4   | -    | -    | -    | -         | -    | -    |

| No | Course ID | Name of Course                              | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|----|-----------|---|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|    |           |   |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|    |           |   |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 91 | M22K08    | Advanced IT Governance                      | MB   | 8   | 4   | 6,4  | -                              | 0,3  | 0,3   | 0,3  | -    | -    | -         | -    | 0,1  |
| 92 | M22K10    | ICT for Education                           | MB   | 8   | 4   | 6,4  | -                              | 0,3  | 0,3   | -    | 0,3  | -    | -         | -    | 0,1  |
| 93 | M22K11    | Applied ICT                                 | MB   | 8   | 4   | 6,4  | -                              | 0,3  | 0,3   | -    | 0,3  | -    | -         | -    | 0,1  |
| 94 | M22K15    | Intelligent System Special Issue            | MB   | 8   | 4   | 6,4  | -                              | -    | -     | -    | 0,3  | 0,3  | -         | 0,3  | 0,1  |
| 95 | M22K12    | Cloud Computing and IoT Special Issue       | MB   | 8   | 4   | 6,4  | -                              | -    | -     | -    | 0,3  | 0,3  | 0,3       | -    | 0,1  |
| 96 | M22K13    | Computer Network and Security Special Issue | MB   | 8   | 4   | 6,4  | -                              | -    | -     | -    | 0,2  | 0,2  | 0,3       | 0,3  | -    |
| 97 | M22K16    | Information System Special Issue            | MB   | 8   | 4   | 6,4  | -                              | -    | -     | 0,2  | 0,2  | -    | -         | 0,3  | 0,3  |
| 98 | M22K14    | Mobile Application Special Issue            | MB   | 8   | 4   | 6,4  | -                              | -    | -     | -    | 0,3  | -    | 0,3       | 0,3  | 0,1  |

| No  | Course ID | Name of Course                         | Type | Sem | SKS | ECTS | Program Learning Outcome (PLO) |      |       |      |      |      |           |      |      |
|-----|-----------|--|------|-----|-----|------|--------------------------------|------|-------|------|------|------|-----------|------|------|
|     |           |  |      |     |     |      | Attitude                       |      | Skill |      |      |      | Knowledge |      |      |
|     |           |  |      |     |     |      | PLO1                           | PLO2 | PLO3  | PLO4 | PLO5 | PLO6 | PLO7      | PLO8 | PLO9 |
| 99  | M22K01    | Office Computer Application            | MB   | 8   | 2   | 3,2  | -                              | 0,3  | -     | -    | 0,3  | -    | 0,4       | -    | -    |
| 100 | P22C04    | Intro to Smart City Global Convergence | FE   | 7   | 2   | 3,2  | -                              | 0,2  | 0,1   | 0,2  | -    | 0,25 | -         | -    | 0,25 |

\* Abbreviations:

- Type of Course: M = Mandatory, CE = Concentration Elective, FE = Free Elective
- Special Type of Course: MB (MBKM) = Independent Learning-Independent Campus (Special course to support Indonesian Government Policy). It is relatively similar with elective course type.
- Sem = Semester
- SKS = *Satuan Kredit Semester* (Study Credit Unit of Indonesia)
- ECTS = European Credit Transfer and Accumulation System
- PLO = Program Learning Outcome

## CHAPTER 4

### PROGRAM LEARNING OUTCOME ASSESSMENT AND EVALUATION

BIE provides some measurement and evaluation criteria for each PLO provided on the curriculum. Table 4.1 provides the measurement and evaluation parameters for each PLO. The list of PLO comes from Table 2.2.

Table 4.1 Assessment and Evaluation Parameter for the PLO

| Type     | PLO  | PLO Description   | Assessment and Evaluation   |   |
|----------|------|---|---|---|
|          |      |   | Indicator   | Method  |
| Attitude | PLO1 | <p><u><i>Humanitarian and Social Awareness</i></u></p> <p>Having ability to solve humanitarian and social issues, open minded, and concerned with academic/ professional ethics. (2.1.5)</p>  | <ul style="list-style-type: none"> <li>• Student involvement in community activities</li> </ul>   | <ul style="list-style-type: none"> <li>• Project</li> <li>• Report</li> <li>• Case Study</li> <li>• Presentation</li> </ul> |
|          | PLO2 | <p><u><i>Professional, Responsibility, and Sustainable Learning</i></u></p> <p>Demonstrate professional attitude in boundary conditions; having ability and responsibility to work independently and/or as a team; and be ready for sustainability learning. (2.1.2, 2.1.5)</p> | <ul style="list-style-type: none"> <li>• Punctuation on task submission</li> <li>• Ability and Responsibility on teamwork</li> <li>• Skill on solving given problems</li> </ul> | <ul style="list-style-type: none"> <li>• Written test</li> <li>• Presentation</li> <li>• Project</li> </ul>                 |

| <b>Type</b> | <b>PLO</b> | <b>PLO Description</b>  | <b>Assessment and Evaluation</b>  |  |
|-------------|------------|---|---|--|
|             |            |   | <b>Indicator</b>  | <b>Method</b>  |
| Skill       | PLO3       | <p><i><u>Leadership and Communication</u></i></p> <p>Having managerial and communication skills to maintain their subordinates. In addition, the communicative skills (written and oral) will support their role to initiate and expand collaboration networks with their former supervisors, colleagues, and potential partners inside and/or across the institution/ country and manage possible conflicts. (2.1.6)</p> | <ul style="list-style-type: none"> <li>• Ability to deliver ideas on public</li> <li>• Ability to work as a team on handling a task</li> </ul>  | <ul style="list-style-type: none"> <li>• Presentation</li> <li>• Project</li> </ul>  |
|             | PLO4       | <p><i><u>Entrepreneurship Experiences</u></i></p> <p>Having competence to run business with the support of information technology to evaluate its progress by applying data analysis knowledge. (2.1.5)</p>   | <ul style="list-style-type: none"> <li>• Ability to design a business idea based on given criteria</li> </ul>   | <ul style="list-style-type: none"> <li>• Presentation</li> <li>• Project</li> <li>• Portfolio</li> <li>• Poster</li> </ul> |
|             | PLO5       | <p><i><u>Information Technology Knowledge.</u></i></p> <p>Having ability to develop an IT system based on the recent evaluation; then</p>   | <ul style="list-style-type: none"> <li>• Solution design quality for a problem given by lectures related to the IT field. Students' scores would increase when their design fits criteria on a given problem</li> </ul> | <ul style="list-style-type: none"> <li>• Written test</li> <li>• Project</li> <li>• Case Study</li> </ul>                  |

| <b>Type</b> | <b>PLO</b> | <b>PLO Description</b>  | <b>Assessment and Evaluation</b>  |   |
|-------------|------------|---|---|---|
|             |            |   | <b>Indicator</b>  | <b>Method</b>   |
|             |            | evaluate performance improvement of the updated system. (2.1.2, 2.1.3, 2.1.4)   | <ul style="list-style-type: none"> <li>How significant is the impact of the application to solve the problem</li> </ul>   |   |
|             | PLO6       | <p><u><i>Scientific Logic</i></u></p> <p>Having critical thinking analysis skill to innovate on the basis of their obtained knowledge and technology. In addition, the graduates are also urged to write scientific papers. (2.1.2, 2.1.6)</p>        | <ul style="list-style-type: none"> <li>The effectiveness of the program code written by students</li> <li>Students' presentation and writing skills in a course that discusses logic in the field of science</li> </ul> | <ul style="list-style-type: none"> <li>Written test</li> <li>Project</li> <li>Presentation</li> </ul> |
| Knowledge   | PLO7       | <p><u><i>Fundamental and Engineering Knowledge</i></u></p> <p>Having strong basic knowledge (mathematics, computations, statistics, system computer, and network) and solving complex problems related to informatics engineering. (2.1.1, 2.1.2)</p> | <ul style="list-style-type: none"> <li>Students' competence in solving related problem</li> </ul>   | <ul style="list-style-type: none"> <li>Written test</li> <li>Journal</li> </ul>                       |
|             | PLO8       | <u><i>Data Engineering Solution</i></u>   | <ul style="list-style-type: none"> <li>Students' presentation skills to provide ideas on solving a given problem</li> </ul>   | <ul style="list-style-type: none"> <li>Presentation</li> <li>Project</li> <li>Case Study</li> </ul>   |

| <b>Type</b> | <b>PLO</b> | <b>PLO Description</b>   | <b>Assessment and Evaluation</b>   |   |
|-------------|------------|--|--|---|
|             |            |  | <b>Indicator</b>   | <b>Method</b>   |
|             |            | Having knowledge and expertise as a data analyst and/or data engineer; AI system developers; IoT developers; information system developers; system administrators; and database administrators. (2.1.1, 2.1.2, 2.1.3)  |  |   |
|             | PLO9       | <p><u><i>Knowledge of Contemporary Issues and Local Wisdom</i></u></p> <p>Having full awareness on local-community issues such as physical resources and human resources; being able to solve and evaluate local-community problems using advanced technology. (2.1.6)</p> | <ul style="list-style-type: none"> <li>• Students' ability to contribute both ideas and real actions in the community</li> </ul> | <ul style="list-style-type: none"> <li>• Presentation</li> <li>• Project</li> <li>• Case Study</li> <li>• Poster</li> </ul> |



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS MATARAM**

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**SALINAN**

**KEPUTUSAN REKTOR UNIVERSITAS MATARAM  
NOMOR 15163/UN18/HK/2022**

**TENTANG**

**PENETAPAN KURIKULUM PROGRAM STUDI TEKNIK INFORMATIKA  
FAKULTAS TEKNIK**

**REKTOR UNIVERSITAS MATARAM,**

Menimbang : a. bahwa sehubungan dengan hasil rapat senat Fakultas Teknik dan review oleh Lembaga Penjaminan Mutu dan Pengembangan Pendidikan (LPMPP) tentang Penyusunan Perubahan Kurikulum Tahun 2022, maka perlu ditetapkan melalui Keputusan Rektor;  
b. bahwa berdasarkan Surat Wakil Rektor Bidang Akademik Nomor 14903/UN18.1/EP/2022 tanggal 8 November 2022, perihal mohon diterbitkannya Surat Keputusan Rektor tentang Penetapan Kurikulum Program Studi Teknik Informatika Fakultas Teknik;  
c. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a dan b, perlu menetapkan Keputusan Rektor tentang Penetapan kurikulum Program Studi Teknik Informatika Fakultas Teknik;

Mengingat : 1. Undang-Undang Republik Indonesia Nomor 20 Tahun 2003 tentang Sistem Pendidikan Nasional (Lembaran Negara Republik Indonesia Tahun 2003 Nomor 78, Tambahan Lembaran Negara Republik Indonesia Nomor 4301);  
2. Undang-Undang Republik Indonesia Nomor 12 Tahun 2012 tentang Pendidikan Tinggi (Lembaran Negara Republik Indonesia tahun 2012 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 5336);  
3. Peraturan Pemerintah Republik Indonesia Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi (Lembaran Negara Republik Indonesia tahun 2014 Nomor 16, Tambahan Lembaran Negara Republik Indonesia Nomor 5500);  
4. Keputusan Presiden Republik Indonesia Nomor 257 Tahun 1963 tentang Pendirian Universitas Negeri di Mataram;  
5. Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 116 Tahun 2014 tentang Organisasi dan Tata Kerja Universitas Mataram (Berita Negara Republik Indonesia Tahun 2014 Nomor 1549);  
6. Peraturan Menteri Riset, Teknologi dan Pendidikan Tinggi Republik Indonesia Nomor 45 Tahun 2017 tentang Statuta Universitas Mataram (Berita Negara Republik Indonesia Tahun 2017 Nomor 1215);  
7. Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 3 Tahun 2020 tentang Standar Nasional Pendidikan Tinggi (Berita Negara Republik Indonesia Tahun 2020 Nomor 47);  
8. Peraturan Menteri Pendidikan dan Kebudayaan Republik Indonesia Nomor 25 Tahun 2020 tentang Standar Satuan Biaya Operasional Perguruan Tinggi pada Perguruan Tinggi Negeri di Lingkungan Kementerian Pendidikan dan Kebudayaan;

9. Keputusan Menteri Pendidikan, Kebudayaan, Riset, dan Teknologi Republik Indonesia Nomor 11686/MPK.A/KP.07.00/2022 Tahun 2022 tentang Pengangkatan Rektor Universitas Mataram Periode 2022-2026;

MEMUTUSKAN:

Menetapkan : KEPUTUSAN REKTOR TENTANG PENETAPAN KURIKULUM PROGRAM STUDI TEKNIK INFORMATIKA FAKULTAS TEKNIK.

KESATU : Menetapkan kurikulum Program Studi Teknik Informatika Fakultas Teknik.  
KEDUA : Keputusan Rektor ini mulai berlaku pada tanggal ditetapkan.

Ditetapkan di Mataram  
pada tanggal 11 November 2022

REKTOR UNIVERSITAS MATARAM,  
TTD.

BAMBANG HARI KUSUMO

Salinan sesuai dengan aslinya  
UNIVERSITAS MATARAM  
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