



**IMPLEMENTATION AGREEMENT
BETWEEN
BACHELOR OF APPLIED ELECTRONIC SYSTEMS ENGINEERING
TECHNOLOGY STUDY PROGRAM
FACULTY OF VOCATIONAL STUDIES
UNIVERSITAS NEGERI MALANG**

AND

**DEPARTMENT OF ELECTRONIC ENGINEERING
FACULTY OF ELECTRICAL AND ELECTRONIC ENGINEERING
UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

ON

RESEARCH COLLABORATION

Ref: 2.12.8/UN32.10/KS/2025

This Implementation Agreement (IA) signed on 2 December 2025 by the following parties:

1. **Achmad Hamdan, S.Pd., M.Pd.:** Coordinator of the Bachelor of Applied Electronic Systems Engineering Technology Study Program, Faculty of Vocational Studies, Universitas Negeri Malang, located on Jalan Semarang 5, Malang, Indonesia hereinafter referred to as **THE FIRST PARTY**.
2. **Dr. Wan Suhaimizan bin Wan Zaki:** Head of Electronic Engineering Department, Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia, located in 86400 Parit Raja, Johor, Malaysia, hereinafter referred to as **THE SECOND PARTY**.

THE FIRST PARTY and **THE SECOND PARTY** hereinafter shall collectively be referred to as **THE PARTIES**. This Implementation Agreement (IA) on Research Collaboration is developed and established between **THE PARTIES** under the following items:



ARTICLE I PURPOSE AND OBJECTIVE

- (1) The purpose of this Cooperation Implementation Plan is to serve as the basis for the implementation of cooperation prepared by the PARTIES in accordance with the scope of this Cooperation Implementation Arrangement.
- (2) The objective of this Cooperation Implementation Plan is to mutually support the activities of the PARTIES in the framework of cooperation related to the research programme with the research title "*Extended Latin Dances Based Stream Cipher with Enhance the Round Quarter Function for Enabling Data Security Transmission on IoT System*".

ARTICLE II SCOPE OF ACTIVITY

- (1) The scope of this collaboration covers a research programme entitled "*Extended Latin Dances Based Stream Cipher with Enhance the Round Quarter Function for Enabling Data Security Transmission on IoT System*".
- (2) This cooperation activity covers the Bachelor of Applied Electronic Systems Engineering Technology Study Programme with **Prof. Dr. Muladi, ST., MT.** as the Person in Charge of The First Party and **Assoc. Prof. Ir. Dr. Abd Kadir Bin Mahamad** as the Person in Charge of The Second Party.
- (3) The implementation of this cooperation activity is carried out by Prof. Dr. Muladi, ST., MT.
- (4) The PARTIES shall monitor the implementation of the research programme at least 2 (two) times in 1 (one) period of activity.
- (5) The PARTIES carry out the research in the attachment.

ARTICLE III FINANCIAL ARRANGEMENT

The Funding for this Research Collaboration shall be covered by Universitas Negeri Malang under the annual research grant program.

ARTICLE IV DURATION

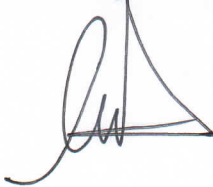
This Implementation Agreement is effective from 2 December 2025 and valid until 2 December 2026.

ARTICLE V
AMENDMENTS AND TERMINATION

- (1) This Implementation Agreement can be changed or modified upon mutual agreement in writing of THE PARTIES under mutually agreed terms and conditions.
- (2) This Implementation Agreement shall be terminated when one of THE PARTIES or THE PARTIES violate the mutually agreed terms and conditions.
- (3) This Implementation Agreement shall be discussed by THE PARTIES and can be written in an Addendum attached as an integral part of this Implementation Agreement document.
- (4) This Implementation Agreement is developed for Research Collaboration and is established and signed by THE PARTIES in duplicate; all copies being equally authentic.
- (5) Matters that are not or have not been regulated in the text of this Cooperation Implementation Plan will be regulated later by the PARTIES on the basis of deliberation or consensus which will then be stated in an Addendum and is an inseparable part of this Cooperation Implementation Plan.

First Party,

Coordinator of Bachelor of Applied
Electronic System Engineering Study
Program
Universitas Negeri Malang



Achmad Hamdan, S.Pd., M.Pd.

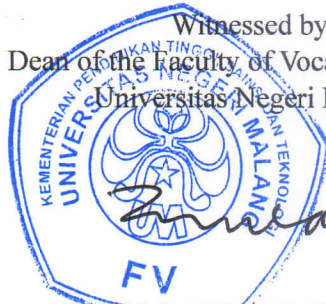
Second Party,

Head of Electronic Engineering Department
Universiti Tun Hussein Onn Malaysia



Dr. Wan Suhaimizan bin Wan Zaki

Witnessed by,
Dean of the faculty of Vocational Studies
Universitas Negeri Malang



Prof. Dr. Muladi, ST., MT.



APPENDIX

BACHELOR OF APPLIED ELECTRONIC
SYSTEMS ENGINEERING TECHNOLOGY
STUDY PROGRAM
FACULTY OF VOCATIONAL STUDIES
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UNIVERSITI TUN HUSSEIN ONN
MALAYSIA

ON

RESEARCH COLLABORATION

No	Researcher(s)	Home University	Research Title	Duration of Research
1	Prof. Dr. Muladi, ST., MT.	UM	<i>Extended Latin Dances Based Stream Cipher with Enhance the Round Quarter Function for Enabling Data Security Transmission on IoT System</i>	1 (one) year
2.	Assoc. Prof. Ir. Dr. Abd Kadir Bin Mahamad	UTHM		

