PERJANJIAN PELAKSANAAN
(IMPLEMENTATION of AGREEMENT)

ANTARA

PROGRAM STUDI PENDIDIKAN MATEMATIKA
FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN
UNIVERSITAS MUHAMMADIYAH BENGKULU
DENGAN
STATE UNIVERSITY OF NEW YORK

TENTANG
KULIAH UMUM

Nomor : 131/IA/DF.I/1D/II.3.AU/C/2025
Nomor :

Berdasarkan Kesepakatan mengenai Perihal Kuliah Umum maka pada Hari Sabtu tanggal Dua Puluh bulan Desember tahun Dua Ribu Dua Puluh Lima, (20-12-2025) bertempat di Kota Bengkulu, telah terjadi kesepakatan implementasi kegiatan kerja sama antara Program Studi Pendidikan Matematika Fakultas Keguruan Dan Ilmu Pendidikan Universitas Muhammadiyah Bengkulu sebagai **PIHAK PERTAMA** dan State University of New York sebagai **PIHAK KEDUA** tentang kegiatan Kuliah Umum, dengan ketentuan sebagai berikut:

1.	Deskripsi Kerja Sama	:	Kuliah Umum
2.	Tempat Pelaksanaan	:	Kampus 1 UM Bengkulu, Kota Bengkulu
3.	Jenis Lembaga Mitra	:	State University of New York
4.	Waktu Pelaksanaan	:	1 Hari
5.	Peserta	:	Dosen Pendidikan Matematika, Mahasiswa dan G
6.	Narasumber	:	Asst. Prof. Iwan A.J. Sianturi, Ph.D
7.	Sumber Pembiayaan	:	In Kind
8.	Perselisihan	:	Jika terjadi perselisihan di antara **PARA PIHAK,** maka akan diselesaikan secara musyawarah untuk mencapai mufakat.
9.	Ketentuan lainnya	:	Hal-hal yang belum dicantumkan dalam *Implementation Agreement* ini akan dibahas tersendiri, merupakan bagian yang tidak terpisahkan dari Implementasi Kerja Sama ini.

Demikian *Implementation Agreement* (IA) ini ditandangani kedua belah pihak di atas meterai dan berkekuatan hukum yang sama.

Pihak Pertama	Pihak Kedua
Program Studi Pendidikan Matematika Fakultas Keguruan Dan Ilmu Pendidikan Universitas Muhammadiyah Bengkulu	State University of New York

Rahmat Jumri, M.Pd
Ketua Program Studi

IMPLEMENTATION ARRANGEMENT
Between
Faculty of Teacher Training and Education
Universitas Muhammadiyah Bengkulu, Indonesia
and
State University of New York

1. Background

This Implementation Arrangement (IA) is made under the Memorandum of Understanding (MoU) between Universitas Muhammadiyah Bengkulu (UMB) and the State University of New York (SUNY) to strengthen academic collaboration and mutual understanding through joint educational and scholarly activities.

2. Objective

The purpose of this IA is to outline the implementation details of an Academic Guest Lecture and Collaborative Discussion organized by the Department of Mathematics Education, Faculty of Teacher Training and Education, Universitas Muhammadiyah Bengkulu in collaboration with the State University of New York.

3. Activity Details

Title of Activity	International Public Lecture
Theme	Integrating ETNO-STEAM to Strengthen Cultural Identity and Innovation in Mathematics Education
Date	December 20, 2025
Venue	Universitas Muhammadiyah Bengkulu (Hybrid: Online)
Organizer	Dep Department of Mathematics Education, Faculty of Teacher Training and Education, Universitas Muhammadiyah Bengkulu
Partner Institution	State University of New York
Keynote Speaker	Asst. Prof. Iwan A. J. Sianturi, Ph.D., State University of New York

4. Roles and Responsibilities

Universitas Muhammadiyah Bengkulu (UMB) :

- Organize and coordinate all event logistics, including participant invitations and technical support.
- Provide facilities, including the venue, hybrid learning platform, and event documentation.
- Issue certificates of participation and certificates of appreciation.
- Publicize the event through official institutional communication channels.

State University of New York (SUNY) :

- Provide the keynote speaker for the academic guest lecture.
- Share academic materials, references, and scholarly resources relevant to the lecture theme.
- Support academic exchange initiatives and encourage future collaboration in mathematics education and educational innovation.

5. Expected Outcomes

- Strengthened academic collaboration between the Faculty of Teacher Training and Education, Universitas Muhammadiyah Bengkulu (FKIP UMB) and the State University of New York (SUNY).
- Exchange of ideas and innovations in mathematics education and higher education pedagogy.
- Opportunities for further cooperation, including joint seminars, collaborative research, and academic publications.

6. Duration

This Implementation Arrangement is valid for the period required for the execution and documentation of the aforementioned activity in December 2025.

7. Signatures

This IA is signed by both parties in good faith to promote mutual cooperation and understanding.

Universitas Muhammadiyah Bengkulu
Faculty of Teacher Training and Education

Dr. Santoso, M.Pd
Dean, Faculty of Teacher Training and Education
Universitas Muhammadiyah Bengkulu
Date:…….., 2025

State University of New York

Asst. Prof. Iwan A. J. Sianturi, Ph.D.
State University of New York
Date: ……., 2025

LAPORAN

1. Background

Mathematics Education continues to develop in response to the growing demands of globalization, digital transformation, and the need for learning approaches that prepare students with analytical, creative, and problem-solving skills. Although modern learning environments increasingly adopt technology and scientific approaches, education must remain rooted in cultural identity to ensure relevance and meaningful learning experiences for students.

ETNO-STEAM (Ethno-Science, Technology, Engineering, Arts, and Mathematics) emerges as a contemporary framework that integrates cultural values and local wisdom with modern interdisciplinary learning. This approach allows students to engage with mathematical concepts not only through abstract theories but also through real-world contexts grounded in the traditions, practices, and cultural heritage around them.

The implementation of ETNO-STEAM in Mathematics Education provides opportunities to enhance student learning outcomes, foster appreciation of local knowledge, and promote culturally responsive teaching. As education grows more global and technology-driven, ETNO-STEAM offers a balance between innovation and cultural preservation, supporting the development of future educators who are scientifically capable, technologically adaptive, and culturally aware.

Therefore, conducting a public lecture on this topic is essential to provide students with updated knowledge, innovative teaching ideas, and a deeper understanding of the role of ETNO-STEAM in transforming Mathematics Education both locally and internationally

In response, the Bachelor's Program in Mathematics Education, Faculty of Teacher Training and Education, Universitas Muhammadiyah Bengkulu, organizes a public lecture to provide deeper insights into *Integrating ETNO-STEAM to Strengthen Cultural Identity and Innovation in Mathematics Education*. The session will be delivered by **Asst. Prof. Iwan A. J. Sianturi, Ph.D.**, an internationally recognized scholar from the **State University of New York**, whose expertise spans mathematics education, ethnomathematics, STEAM integration, and culturally responsive pedagogy. His presence is expected to offer meaningful perspectives for students, faculty members, and the academic community in strengthening culturally grounded, innovative, and future-oriented mathematics education.

2. Objectives

This public lecture aims to :

- To introduce contemporary concepts and developments of ETNO-STEAM in Mathematics Education.
- To strengthen students' understanding of how cultural values and local wisdom can be integrated into modern STEAM-based learning.

- To improve academic and professional competencies of future mathematics educators in designing culturally responsive and innovative learning models.
- To provide a scientific platform for discussion and critical analysis of ETNO-STEAM implementation in various educational settings.
- To inspire the development of learning frameworks that promote creativity, critical thinking, and cultural appreciation in Mathematics Education.

3. Theme and Title

Theme :

Post-Pandemic Innovations in Education

Lecture Title:

"Integrating ETNO-STEAM to Strengthen Cultural Identity and Innovation in Mathematics Education"

4. Speaker

Asst. Prof. Iwan A. J. Sianturi, Ph.D.
State University of New York

5. Date, Time, and Venue

Date **:** Saturday, 20 December 2025

Time **:** 09.00 WIB

Venue **:** Universitas Muhammadiyah Bengkulu - Online

6. Participants

The lecture is intended for :

1. Undergraduate students in mathematics education
2. University lecturers and researchers in mathematics education

7. Expected Outcomes

At the end of the lecture, participants are expected to :

1. Gain insights into the integration of **ETNO-STEAM** in mathematics education to strengthen cultural identity.
2. Acquire practical knowledge on designing **innovative and culturally responsive mathematics learning** through ETNO-STEAM approaches.
3. Enhance understanding of how **local culture and interdisciplinary innovation** can be synergized to improve mathematics teaching and learning.

4. Build stronger academic and professional networks in the field of **mathematics education at national and international levels**

8. Agenda

Time (WIB)	Activity
08:55 – 09:00	Registration of participants
09:00 – 09:30	Opening remarks & introduction of speaker
09:30 – 10:30	Keynote lecture by **Asst. Prof. Iwan A. J. Sianturi, Ph.D**
10:30 – 11:30	Q&A session
11:30 – 11:50	Closing remarks

9. Organizer

Bachelor's Program in Mathematics Education

College of Teacher Training and Education

Universitas Muhammadiyah Bengkulu

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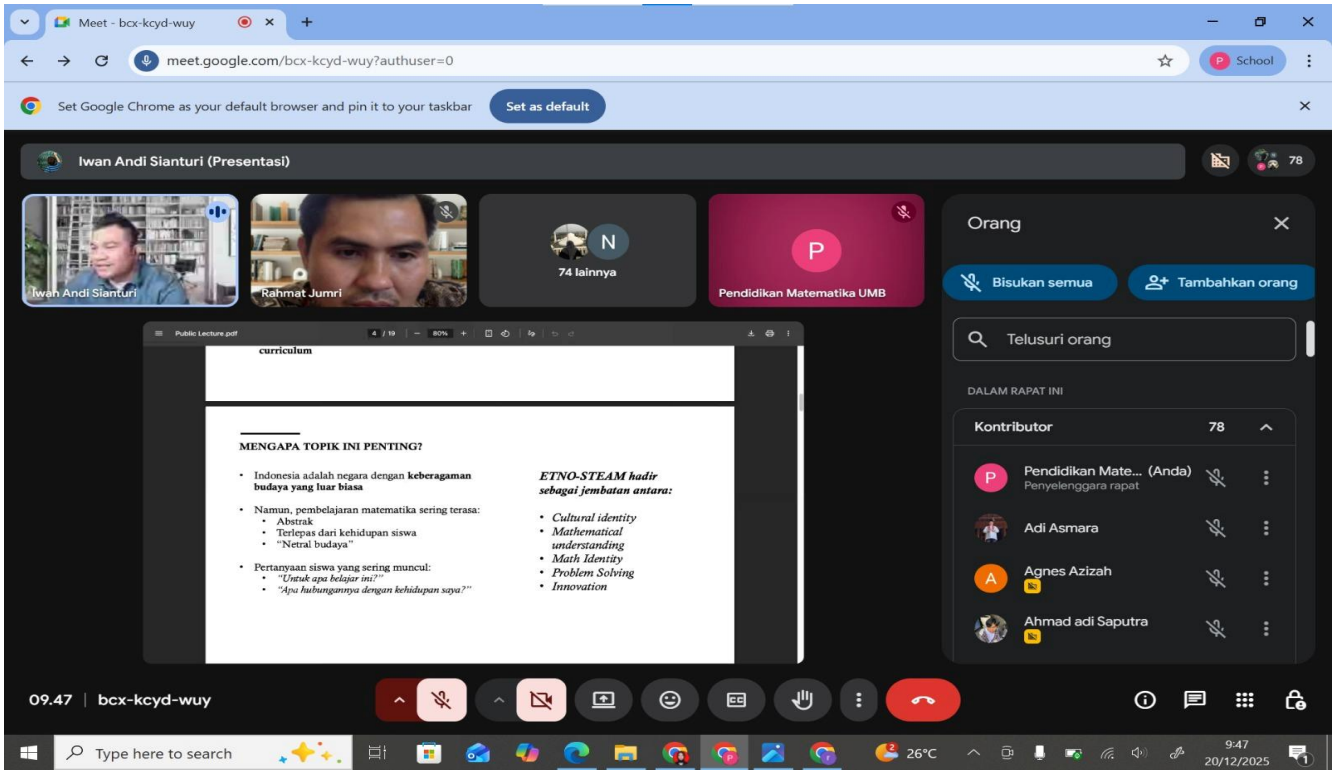
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meet.google.com/bcx-kcyd-wuy?authuser=0
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Iwan Andi Sianturi (Presentasi)
78
Iwan Andi Sianturi
Rahmat Jumri
74 lainnya
Pendidikan Matematika UMB
Public Lecture.pdf
curriculum
MENGAPA TOPIK INI PENTING?
Indonesia adalah negara dengan keberagaman budaya yang luar biasa
Namun, pembelajaran matematika sering terasa:
Abstrak
Terlepas dari kehidupan siswa
"Netral budaya"
Pertanyaan siswa yang sering muncul:
"Untuk apa belajar ini?"
"Apa hubungannya dengan kehidupan saya?"
ETNO-STEAM hadir sebagai jembatan antara:
Cultural identity
Mathematical understanding
Math Identity
Problem Solving
Innovation
Orang
Bisukan semua
Tambahkan orang
Telusuri orang
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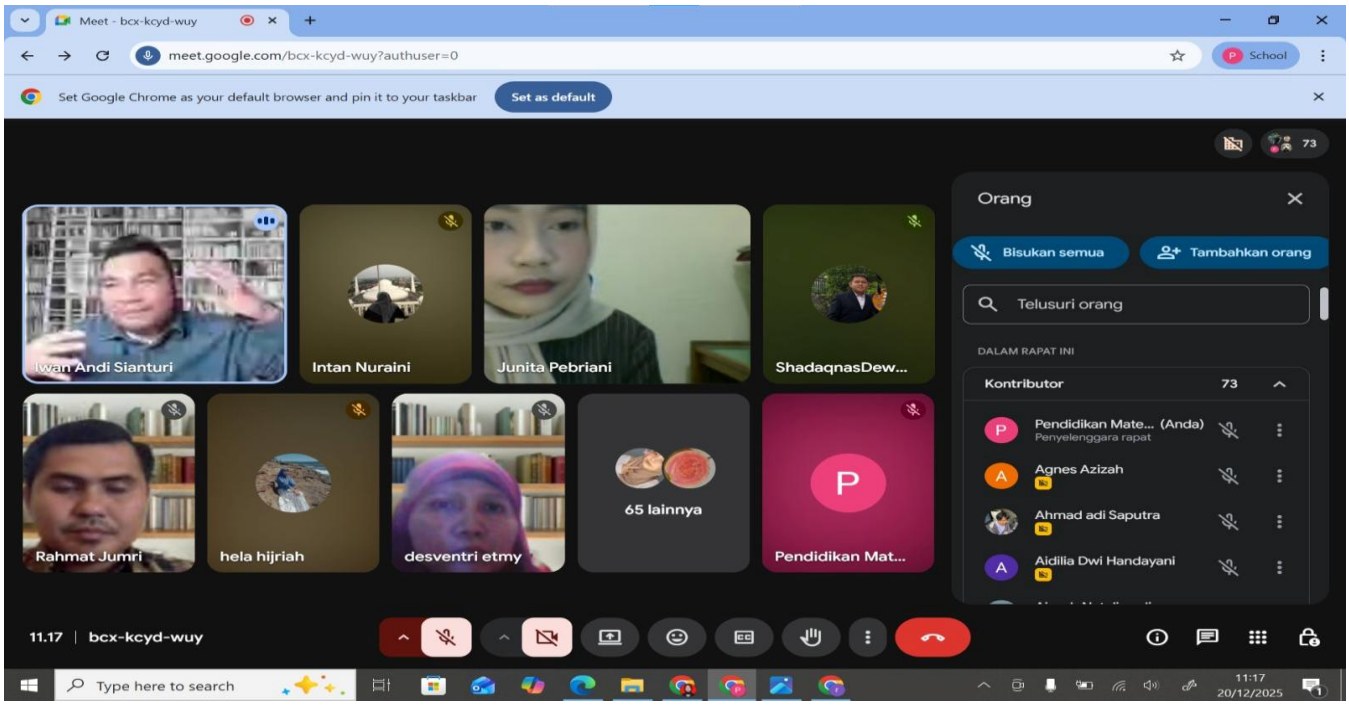

CERTIFICATE

OF APPRECIATION

No : 167/DF.1/1D/II.3.AU/C/2025

This certificate is proudly presented to

Asst. Prof. Iwan A.J. Sianturi, Ph.D

in sincere appreciation and recognition of your outstanding contribution as the Distinguished Keynote Speaker in the International Public Lecture: "Integrating ETNO-STEAM to Strengthen Cultural Identity and Innovation in Mathematics Education"
organized by the Mathematics Education, Faculty of Teacher Training and Education, Universitas Muhammadiyah Bengkulu on Saturday, 20 December 2025

Dean of the College of Teacher Training and Education

Drs. Santoso, M.Si
NIP. 196706252993032100 4

Head of Mathematics Education Study Program

Rahmat Jumri, M.Pd
NIDN. 0220109401