



No. 369/UN41.1/Kim.S3/2026

**IMPLEMENTATION AGREEMENT
BETWEEN
DOCTORAL OF CHEMISTRY, FACULTY
OF MATHEMATICS, NATURAL
SCIENCES, AND EARTH SCIENCES
UNIVERSITAS NEGERI MANADO
WITH
CHEMISTRY DEPARTMENT, COLLEGE
OF NATURAL SCIENCE
SOGANG UNIVERSITY
ON
INTERNATIONAL WORKSHOP ON
CHEMISTRY EDUCATION INNOVATION
" Fablab Innovation, EtnoStem and
Microscale Chemistry Development
Workshop"**

**PERJANJIAN IMPLEMENTASI
ANTARA
PROGRAM STUDI S3 KIMIA ,
FAKULTAS MATEMATIKA, ILMU
PENGETAHUAN ALAM, DAN
KEBUMIHAN
UNIVERSITAS NEGERI MANADO
DENGAN
CHEMISTRY DEPARTMENT, COLLEGE
OF NATURAL SCIENCE
SOGANG UNIVERSITY
TENTANG
INTERNATIONAL WORKSHOP ON
CHEMISTRY EDUCATION
INNOVATION
" Fablab Innovation, EtnoStem and
Microscale Chemistry Development
Workshop"**

On this day, Wednesday, the twenty nine of July, two thousand and twenty-six (29-07-2026), at Universitas Negeri Manado, the undersigned:

Name : Prof.Dr.Mokosuli Yermia
Semuel.M.Si

Position : Dean

Address : Jalan Kampus Unima, Tonsaru
Village, Tondano Selatan
District, Minahasa Regency,
North Sulawesi, Indonesia

In this matter acting for and on behalf of the Doctoral of Chemistry, Faculty of Mathematics, Natural Sciences and Earth Sciences hereinafter referred to as the **FIRST PARTY**.

Pada hari ini, Rabu, tanggal dua puluh sembilan, bulan Juli, tahun dua ribu dua puluh enam (29-07-2026) bertempat di Universitas Negeri Manado yang bertanda tangan di bawah ini:

Nama : Prof.Dr.Mokosuli Yermia
Semuel.M.Si

Jabatan : Dekan

Alamat : Jalan Kampus Unima,
Kelurahan Tonsaru,
Kecamatan Tondano Selatan,
Kabupaten Minahasa,
Sulawesi Utara.

Dalam hal ini bertindak untuk dan atas nama Program Studi S3 Kimia, Fakultas Matematika, Ilmu Pengetahuan Alam dan Kebumihan, Universitas Negeri Manado selanjutnya disebut **PIHAK KESATU**

Name : Prof. Dr. Won Koo Lee
Position : Professor
Address : Chemistry Department, College
of Natural Science (CNS),
Sogang University (SU), South
Korea

In this matter acting for and on behalf of the
Chemistry Department, College of Natural
Science (CNS), Sogang University (SU),
hereinafter referred to as the **SECOND
PARTY**

The **FIRST PARTY** and the **SECOND
PARTY**, hereinafter collectively referred to as
the **PARTIES**, hereby agree to jointly
implement the cooperation concerning the
execution of educational activities, which
shall be carried out by the **PARTIES** as
stipulated in the following articles.

Article 1

Purpose and Objectives

1. This Implementation Agreement serves
as the foundation for conducting the
International Workshop on Chemistry
Education Innovation, jointly prepared by
the **PARTIES** in accordance with the
scope of cooperation.
2. The objectives of this Agreement are:
 - a. To advance education innovation
through FabLab-Based Chemistry
Education, EthnoSTEM approaches,
and microscale experimentation.
 - b. To provide international exposure for
faculty members and students through
workshops involving experts from
global partner universities.

Nama. : Prof. Dr. Won Koo Lee
Jabatan : Professor
Alamat. : Chemistry Department, College
of Natural Science (CNS),
Sogang University (SU), South
Korea

Dalam hal ini bertindak untuk dan atas
nama Chemistry Department, College of
Natural Science (CNS), Sogang
University (SU), selanjutnya disebut
PIHAK KEDUA.

PIHAK KESATU dan **PIHAK KEDUA**
selanjutnya disebut **PARA PIHAK.**
Dengan ini sepakat untuk bersama-sama
melaksanakan implementasi Kerja Sama
mengenai Implementasi Pelaksanaan
Kegiatan Pendidikan dilaksanakan oleh
PARA PIHAK seperti diatur dalam pasal
sebagai berikut

Pasal 1

Maksud Dan Tujuan

1. Implementasi Kerja Sama ini
dimaksudkan sebagai landasan
pelaksanaan kegiatan International
Workshop on Chemistry Education
Innovation yang disusun oleh **PARA
PIHAK** sesuai ruang lingkup kerja
sama.
2. Tujuan Implementasi Kerja Sama ini
adalah:
 - a. Mengembangkan inovasi
pembelajaran melalui pendekatan
FabLab-Based Chemistry
Education, EthnoSTEM, dan
eksperimen mikroskala.
 - b. Memberikan paparan internasional
kepada dosen dan mahasiswa
melalui workshop yang melibatkan
pakar dari universitas mitra global.

Article 2

Scope of Activities

1. The implementation of the International Workshop on Chemistry Education Innovation includes:
 - a. Presentations by international experts on education innovation.
 - b. Demonstrations of FabLab modules, EthnoSTEM practices, and microscale experiments.
2. FIRST PARTY :
 - a. Provide workshop participants (lecturers and students).
 - b. Provide facilities and technical support for workshop implementation.
3. SECOND PARTY :
 - a. Provide expert speakers from international partner universities. The speakers are as follows :
 - Prof. Won Koo Lee
 - Dr. Mariana Setyorini
 - Triannisa, M.Si
 - Dr. Cepi Kurniawan, M.Si
 - Rachmadani, S.Si, M.Si
 - Prof. Woro Sumarni
 - Prof. I Nyoman Suardana
 - Dr. Eldat Wira Santa, M.Si
 - b. Provide materials, modules, and best practices in innovative education.
 - c. Assist in preparing recommendations for implementing educational innovations.
4. The PARTIES shall conduct monitoring and evaluation of workshop outcomes and produce outputs in the form of:
 - a. A document containing recommendations for education innovation.
 - b. An implementation plan for innovative teaching practices for the upcoming academic year.

Pasal 2

Ruang Lingkup Kegiatan

1. Pelaksanaan International Workshop on Chemistry Education Innovation mencakup:
 - a. Pemaparan materi oleh pakar internasional terkait inovasi pembelajaran
 - b. Demonstrasi modul FabLab, EthnoSTEM, dan eksperimen mikroskala.
2. PIHAK PERTAMA :
 - a. Menyediakan peserta workshop (mahasiswa dan dosen).
 - b. Menyediakan fasilitas dan kebutuhan teknis pelaksanaan workshop.
3. PIHAK KEDUA :
 - a. Menyediakan narasumber ahli dari universitas mitra internasional. Narasumber tersebut adalah sebagai berikut :
 - Prof Won Koo Lee
 - Dr. Marina Setyorini
 - Triannisa, M.Si
 - Dr. Cepi Kurniawan, M.Si
 - Rachmadani, S.Si., M.Si.
 - Prof. Woro Sumarni
 - Prof. I Nyoman Suardana
 - Dr Eldat Wira Santa, M.Si
 - b. Menyediakan materi, modul, dan contoh best practices inovasi pembelajaran.
 - c. Mendampingi proses penyusunan rekomendasi implementasi inovasi pembelajaran.
4. PARA PIHAK melakukan monitoring dan evaluasi hasil workshop serta menyusun luaran berupa:
 - a. Dokumen rekomendasi inovasi pembelajaran
 - b. Rencana implementasi inovasi pembelajaran untuk tahun akademik berikutnya.

Article 3 Funding

Expenses arising from the implementation of this workshop shall be borne by each Party according to mutual agreement and shall not impose additional financial obligations beyond the agreed scope of activities.

Article 4 Duration

This Implementation Agreement is effective from the date of signing until the completion of all workshop activities and the preparation of recommendations, covering the period July 2026 to July 2027.

Article 5 Closing

1. Any amendments to this Implementation Agreement may be made upon the mutual consent of the PARTIES.
2. This Implementation Agreement may be considered void if either Party fails to comply with the agreed provisions.
3. Matters not yet regulated in this Agreement shall be determined later through deliberation and subsequently documented in an Addendum, which will form an integral part of this Agreement.
4. This Implementation Agreement is prepared in two (2) original copies, duly stamped, each bearing equal legal force.

Pasal 3 Pembiayaan

Biaya yang timbul dari pelaksanaan workshop ini ditanggung oleh masing-masing pihak sesuai kesepakatan PARA PIHAK dan tidak mengikat pada pembiayaan tambahan di luar ruang lingkup kegiatan.

Pasal 4 Jangka Waktu

Perjanjian Implementasi ini berlaku sejak tanggal ditandatangani hingga selesainya seluruh rangkaian workshop dan penyusunan rekomendasi, yaitu pada periode Juli 2026 sampai Juli 2027.

Pasal 5 Penutup

1. Perubahan atas naskah Implementasi Kerja Sama ini dapat dilakukan atas persetujuan PARA PIHAK.
2. Implementasi Kerja Sama ini dapat dianggap batal apabila salah satu pihak tidak memenuhi ketentuan yang telah disepakati.
3. Hal-hal yang belum diatur dalam naskah ini akan ditetapkan kemudian melalui musyawarah dan dituangkan dalam Adendum.
4. Naskah Implementasi Kerja Sama ini dibuat dalam rangkap 2 (dua), bermeterai cukup, dan memiliki kekuatan hukum yang sama.

First Party/PIHAK KESATU



Prof.Dr. Mokosuli Yermia Semuel,S.Si,M.Si
Dean/ Dekan Fakultas Matematika,Ilmu
Pengetahuan Alam dan
Kebumian,Universitas Negeri Manado

Second Party/PIHAK KEDUA



Prof.Dr.Won Koo Lee
Chemistry Department,College of Natural
Sciences,Sogang University