



INTERNATIONAL WALISONGO SCIENCE COMPETITION (IWSC)
FACULTY OF SCIENCE AND TECHNOLOGY
UNIVERSITAS ISLAM NEGERI WALISONGO SEMARANG
Address: Prof. Dr. Hamka Street (Campus 3) Semarang, Central Java,
Indonesia, 50185 Phone (+62 24) 76433366
E-mail: i_wsc@walisongo.ac.id Website: <https://iWSC.walisongo.ac.id/>



Semarang-Indonesia, July 11 2025

ANNOUNCEMENT OF SEMIFINALIST

INTERNATIONAL WALISONGO SCIENCE COMPETITION 2025

No : B.6769/Un.10.8/D/KM.05.05/07/2025

A. COMPETITION CATEGORY: PHYSICS

NO	FULLNAME	UNIVERSITY/COLLEGE
1	Ahmad Maulana Julianto	Diponegoro University
2	Fahry Rizky Samsudin	UIN Sunan Gunung Djati Bandung
3	Fatma Nazira	UIN Sayyid Ali Rahmatullah
4	Gilang Pratama Putra Siswanto	UIN Sunan Gunung Djati Bandung
5	Juliana Gloria	State University of Medan
6	Muhamad Arroyan	UIN Walisongo Semarang
7	Naya Maylla Faiza	UIN Walisongo Semarang
8	Putri Aulia Rizky	UIN Sunan Gunung Djati Bandung
9	Rangga Pramudya	UIN Sunan Gunung Djati Bandung
10	Reza Farel Ramdhani	UIN Sunan Gunung Djati Bandung

B. COMPETITION CATEGORY: MATHEMATICS

NO	FULLNAME	UNIVERSITY/COLLEGE
1	A. Nur Hidayat Mustafa	Universitas Negeri Makassar
2	Ach Ali Fahad	Universitas Diponegoro
3	Ahmad Fuad Luthfi	UIN Walisongo Semarang
4	Ahmad Nizar Syahputra	Airlangga University
5	Ainun Esti Candra	UIN Walisongo Semarang
6	Ferdinandus Riyandika Pratama	Universitas Diponegoro
7	La Ode Abdul Aziz	Hasanuddin University



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8	Nawwaf Anshorulloh Supriyatna	Universitas Negeri Semarang
9	Sella Nur Alawiyah Failani	UIN Walisongo Semarang
10	Theona Kezia Marimbun	Universitas Negeri Makassar

C. COMPETITION CATEGORY: CHEMISTRY

NO	FULLNAME	UNIVERSITY/COLLEGE
1	Andhika Febrian Pulungan	Universitas Negeri Medan
2	Balqis. Ar	Universitas Negeri Makassar
3	Ersyah Nur Afriliana	UIN Walisongo Semarang
4	Gina Pramesti Lestari	UIN Walisongo Semarang
5	Immanuel Veron Silitonga	Universitas Negeri Medan
6	Jauharotun Nafisah	UIN Walisongo Semarang
7	Muh. Ilham	Universitas Negeri Makassar
8	Muhammad Nur Alim Syarif	Universitas Hasanuddin
9	Muhammad Yusril Baihaqi	UIN Walisongo Semarang
10	Mutiara Nurul Azkia	UIN Sunan Kalijaga

D. COMPETITION CATEGORY: BIOLOGY

NO	FULLNAME	UNIVERSITY/COLLEGE
1	Caraka Adhika Rahardjo	Diponegoro University
2	Hudzaifah An-Naufal Fazasmara	Republic Of Indonesia Defense University
3	Ilham Ikhlasul Amal	UIN Sunan Kalijaga
4	Neila Putri Shofiyana	Uin Sayyid Ali Rahmatullah Tulungagung
5	Nur Hikmah	Universitas Negeri Makassar
6	Pradipta Nararya Wardhana	Indonesia Defense University
7	Ridho Husni	Jenderal Soedirman University
8	Rizqiyah Almuthohharah	Hasanuddin University
9	Siany Eurine Rattu	Duta Wacana Christian University
10	Vincentius Satrio Damardjati	Duta Wacana Christian University



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E. SCIENTIFIC PAPERS- INNOVATION CATEGORY IN ENVIRONMENTAL ENGINEERING

NO	FULLNAME	UNIVERSITY/COLLEGE
1	Afif Ammar Ariansyah, Azzahra Vega Alim Putri, Farhan Prayoga, Ardisurya Luthfi	Universitas Andalas
2	Ahmad Fajar Alfa Goin, Rizka Intan Nurlita, Zahrah Mahfudzoh, Zahrani Rahma Aulia	UIN Sunan Gunung Djati Bandung
3	Dinda Salsabillah, Martha Elia Sagala, Ribka Angeli Sinaga	Universitas Negeri Medan
4	Grandy Sihotang, Ribka Nadiati Pakpahan, Nurfrida, Maria Sipahutar	Universitas Negeri Medan
5	Isna Hanifatul Auliya Rahma, Gugun Gunaldi, Sheva Endriyanto Raharjo	UIN Walisongo Semarang
6	Maria Beatrix Vini Cahyaning Listyowati, Siany Eurine Rattu, Vincentius Satrio Damardjati, Yitron Lum	Duta Wacana Christian University
7	Muhammad Wildan Afifi, Nurul Mahmudah, Fabrizia Hidayatul Fadilla	UIN Sayyid Ali Rahmatullah Tulungagung
8	Nadila Erdina Putry, Neila Putri Shofiyana, Aufiyatul Azizah	UIN Sayyid Ali Rahmatullah Tulungagung
9	Venecia Calista, Juliana Gloria	Universitas Negeri Medan
10	Zukyandus Rivaldi Situmorang, Edwin Pakpahan	Universitas Negeri Medan



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F. SCIENTIFIC PAPERS- INNOVATION START-UP CATEGORY IN THE INFORMATION TECHNOLOGY

NO	FULLNAME	UNIVERSITY/COLLEGE
1	Abimanyu Pratama Al Qautsar Nugraha, Alma Triana Nabilla, Amalliyah , Indriani Herawati	UIN Sunan Gunung Djati
2	Andi Ismail, Muhammad Ulil Albab, Muhamad Arroyan	UIN Walisongo Semarang
3	Desnia Anindy Irni Hareva, Aditya Wisnu Yudha Marsudi , Mazka Buana Hidayat, Muhammad Al Fathi Ayyash	Universitas Sebelas Maret
4	Dimas Bagus Oktavianto, Dimas Alfa Rizky, Syahrul Naufal Syakib, Adi Setiawan	UIN Walisongo Semarang
5	Ifan Setiawan Yuntoro, Suffi Nuralesa, Aura Fitria Maharani, Nikken Prima Puspita	Universitas Diponegoro
6	Inez Nurdika Irzani, Anifatun Niswah, Muhammad Suhail Ramadhany	UIN Walisongo Semarang
7	Mirfa Febrianti, Ismi Tezawati, Rika Nurhasanah	UIN Sunan Gunung Djati
8	Muhammad Nashih Al Wafi, Najwa Aricha Putri	Universitas Negeri Yogyakarta
9	Syahadat'aini Renata Andriana, Fikrianti Sabrina Balqis, Yunitha Askar Dg Lebang, Isnaini Zayyana Fitri	Kalimantan Institute of Technology



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10	Yohanes Leonaldo Sinaga, Elya Syafa'atun Ni'mah , Ahmad Baihaqi	Universitas Negeri Semarang
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Note

1. All Semifinalist must send a science project video with the maximum duration of 10 minutes as part of the semifinal assessment process through the website <http://iwsc.walisongo.ac.id> until July 18, 2025 at 18.00 pm +UTC (Jakarta time)
2. Semifinalists are disqualified if they do not submit video projects.
3. Semifinalists who submit science project videos in each competition category eligible to compete in final round and will be announced on July 21, 2025 on the website: <http://iwsc.walisongo.ac.id>.
4. If there are any problems, please contact the committee



Sincerely,

Prof. Dr. Musahadi, M.Ag.
Dean of Faculty of Science and Technology,
UIN Walisongo Semarang-Indonesia
E-mail: i_wsc@walisongo.ac.id

SEMIFINAL ROUND TECHNICAL GUIDE

TECHNICAL GUIDE FOR VIDEO PROJECT

Semifinal Round Technical Setting:

1. As part of the next stage, each semifinalist is required to **create a video presentation** based on simple research (**maximum duration: 15 minutes**). In the video, please **choose one topic provided by the IWSC 2025 Committee** and present your project based on the given instructions.
2. The video is then uploaded on the IWSC website <http://iwsc.walisongo.ac.id> until 18th July 2025 at 18.00 pm +UTC (Jakarta time).

MATHEMATICS

Mathematic Topics:

The topics for semifinal round of mathematics competition is the implementation of pure mathematics in other fields (technology, economy, social, etc.).

PHYSICS

Physics Project:

1. Tools and Materials:
 - a. Elastic materials of negligible mass (e.g. rubber, valves, spiral springs, etc.)
 - b. Loads that can be considered point objects (e.g. stones, logs, etc.)
 - c. Massive straight rod (e.g. wood, metal, etc.)
 - d. A rope whose mass is negligible
 - e. Hook
2. Question:
 - a. Assemble all the tools and materials in number (1) into one system (free circuit)!
 - b. Explain how the system moves?
 - c. How many constraints are there in the system?
 - d. How many degrees of freedom are there in the system?
 - e. Find the equation of motion for the system!

CHEMISTRY

Chemistry Topics:

- Energy, sustainability, and green chemistry (material and or processes)
- Identification and or separation of any substances
- The use of natural products and their isolation methods
- Wastewater and pollution treatment

- Basic principle of physical chemistry (case in daily life)
- The use of computation in chemistry

BIOLOGY

Biology Project:

1. The topics for the final round of the Biology Competition is “the effect of visible light and “X” on the seed germination in plants”
2. The finalist add another factor “X” as you wish besides the visible light, e.g. temperature, hormone, etc
3. Finalists are expected to prepare videos illustrating the experiment with a maximum duration of 15 minutes from the chosen topic.

SCIENTIFIC PAPER: ENVIRONMENTAL ENGINEERING AND INFORMATION TECHNOLOGY

Scientific Paper Video Project:

The topic of the video project made by the branch of the scientific work competition: environmental engineering and information technology is in accordance with the submitted paper.