



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 11th, 2024

ANNOUNCEMENT OF SEMIFINALIST

INTERNATIONAL WALISONGO SCIENCE COMPETITION 2024

B.4505/Un.10.8/D/KM.05.05/07/2024

A. COMPETITION CATEGORY: MATHEMATICS

NO	FULL NAME	UNIVERSITY/COLLEGE	RANK
1	Adam Fikriansyah Akbar	Surabaya State University	1
2	La Ode Abdul Aziz	Hasanuddin University	2
3	Sehrish James	Government College University , Lahore	3
4	Sherly Indah Pratiwi	UIN Walisongo Semarang	4
5	Nawwaf Anshorulloh Supriyatna	Semarang State University	5
6	Whannie Youngger Oeitama	Makassar State University	6
7	Whennie Youngger Oeitama	Makassar State University	7
8	Dita Susi Evrihatin	UIN Walisongo Semarang	8
9	Muhammad Gian Gymnas Al Alim	Hasanuddin University	9
10	Muh Hilmi Naufal	Hasanuddin University	10

B. COMPETITION CATEGORY: PHYSICS

NO	FULL NAME	UNIVERSITY/COLLEGE	RANK
1	Raihan Harsya	UIN Sunan Gunung Djati Bandung	1
2	Yolanda Eyducia Silaban	Medan State University	2
3	Reza Farel Ramdhani	UIN Sunan Gunung Djati Bandung	3
4	Faisal Rahmat	Makassar State University	4
5	Cindy Klovvia Malau	Medan State University	5
6	FATMA NAZIRA	UIN SAYYID ALI RAHMATULLAH TULUNGAGUNG	6
7	Zakia Ahmad	Institute Technology of Sepuluh Nopember	7
8	Veabri Filiandi	Medan State University	8
9	Syahdatul Darainy	UIN Walisongo Semarang	9
10	Michael Putra Nababan	Institute Technology of Sepuluh Nopember	10



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C. COMPETITION CATEGORY: CHEMISTRY

NO	FULL NAME	UNIVERSITY/COLLEGE	RANK
1	Hanan Aldi	Institute Technology of Sepuluh Nopember	1
2	Dimas Setyo Asmoro	Institute Technology of Sepuluh Nopember	2
3	Muhammad Nur Alim Syarif	Hasanuddin University	3
4	Sururin Ni'matul Zahrok	UIN Sayyid Ali Rahmatullah Tulungagung	4
5	Ali Hamzah Lubis	Medan State University	5
6	Nadine Odelia Rashida	Institute Technology of Sepuluh Nopember	6
7	Lu'lu'atul Munawaroh	UIN Sayyid Ali Rahmatullah Tulungagung	7
8	Adryansyah Anugrah Pratama	Medan State University	8
9	TRI ANDONI	Medan State University	9
10	Safina Widiastuti	UIN Walisongo Semarang	10

D. COMPETITION CATEGORY: BIOLOGY

NO	FULL NAME	UNIVERSITY/COLLEGE	RANK
1	Caraka Adhika Rahardjo	Diponegoro University	1
2	Maully Christy	IPB University	2
3	Vira Rahshinta Putri	Semarang State University	3
4	IMEL WIJAYANTI	UIN Sayyid Ali Rahmatullah	4
5	Naufal Arrafi Trisnanda	UIN Maulana Malik Ibrahim Malang	5
6	Azra Pallupi	North Sumatra University	6
7	Zainul Ihsan	UIN Walisongo Semarang	7
8	Nadila Erdina Putry	UIN SAYYID ALI RAHMATULLAH	8
9	Ridho Husni	University of Jenderal Soedirman	9
10	KHOIRUN NI'MATUL ULFI	UIN Walisongo Semarang	10

E. SCIENTIFIC PAPER: START-UP INNOVATION IN INFORMATION TECHNOLOGY

NO	FULL NAME	UNIVERSITY/COLLEGE	RANK
1	Amanda Zaneta Hakim, Fikrianti Sabrina Balqis, Syahadat'aini Renata Andriana, Yunitha Askar Dg Lebang	Kalimantan Institute	1
2	Andre Ferdiawan, Dian Siti Nurhasanah, Alif Rahman Hakim, Alif Rahman Hakim,	Jakarta State University	2
3	"Ariko Yahya Setyawan, Rr. Rakhel Olivia Ananda, Cahya Adidarma, Fakhru Widyen	Malang State University	3



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4	Khairunnisa Nabila, Fitria Larasati, Arif Zulfahmi	Yogyakarta State University	4
5	Maulana Jawwad, Muhammad Bintang Putranto	UIN Maulana Malik Ibrahim Malang	5
6	Nuurun Najmi Qonita, Sunniyyah Salma Fatihatur Rahmah, Divana Taricha Salmalina Fadhilah Rafi Musyaffa	UIN Walisongo	6
7	Rezza Fiqrathul Putra, Rezza Fiqrathul Putra, Muhammad Fathurrahman, Andre Paskah Gultom	Andalas University	7
8	Risca Safitri Kurniawati, Ita Septiana Fauziah, Nanda Pradana Aji Pangestu, Hendar Dio Adyana	UIN Sayyid Ali Rahmatullah Tulungagung	8
9	Tio Andriyanto, Yahwa Sania, Muhammad Syarifuddin Hidayat	UIN Walisongo	9
10	Ujang Apriansyah, Najwa Alya Syakira, Mochammad Galuh Tranggana, Muhamad Adiyasa Fitrah Anugrah	Universitas Muhammadiyah Sukabumi	10

F. SCIENTIFIC PAPER: ENVIRONMENTAL ENGINEERING

No	Full Name	University/College	Rank
1	Muhammad Qardawi, Raudhatul Azkia, Anisa Malau	University of Syiah Kuala	1
2	Nopriandi, Salbina Amira Savilla, Sully Pudja Kharisma	UIN Raden Fatah Palembang	2
3	Denada Septiani Yesa, Nurul Aliyyah, Sarah Agnesia Sinaga, Risya Amanda Frezso	Medan State University	3
4	Salmanera Senja Lopiani	IAIN Kudus	4
5	Nur Aisyah Ibnu, Dinar Adelia	UIN Raden Fatah Palembang	5
6	Vika Chusnurri'ayah, Ana Nur Faizah, Detalia Rahmadani, Khoirunnisa	UIN Sayyid Ali Rahmatullah Tulungagung	6
7	Raka Setiadi, Rayhan Apriyan, Anjellina Agresia Saputri	UIN Raden Fatah Palembang	7
8	Putri Rahmawati, Chintya Larasati, Syifa Fauziyah, Zidni Azizati	UIN Walisongo Semarang	8
9	Fionita Fahra Azzahra, Indri Hapsari	Semarang State University	9
10	Widya Dhana Juniar, Anggun Nur Farida, Fitria Nurul Farida	UIN Maulana Malik Ibrahim Malang	10



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Notes:

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 20th July 2024 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 23 July 2024 on the website: <http://iwsc.walisongo.ac.id>.
4. If there are any problems, please contact the committee (Indonesian participant: Nada +62 851-5501-0501 or April +62 877-0514-5015 and International Participant: Rita +62 857-8627-6238)



Sincerely,

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



5. SEMIFINAL ROUND TECHNICAL GUIDE

A. TECHNICAL GUIDE FOR VIDEO PROJECT

MATHEMATICS

Semifinal Round Technical Setting:

1. The topics for semifinal round of mathematics competition is the implementation of pure mathematics in other fields (technology, economy, social, etc.).
2. Finalists prepare a video with a maximum duration of 10 minutes from the chosen topic.
3. Finalists upload the video on the IWSC website <http://iwsc.walisongo.ac.id> until 20th July 2024 at 18.00 pm +UTC (Jakarta time).

PHYSICS

Semifinal Round Technical Setting:

1. Finalists prepare a video with a maximum duration of 10 minutes based on the given project.
2. The video is then uploaded on the IWSC website <http://iwsc.walisongo.ac.id> until 20th July 2024 at 18.00 pm +UTC (Jakarta time).

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!



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CHEMISTRY

Semifinal Round Technical Setting:

- Finalists in the field of chemistry create and present videos based on simple research.
- The video material can be chosen by the finalists based on the topics that have been prepared by the committee.
- Finalists prepare a video with a maximum duration of 10 minutes from the selected reference questions.
- The video is then uploaded on the IWSC website <http://iwsc.walisongo.ac.id> until 20th July 2024 at 18.00 pm +UTC (Jakarta time).

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

Semifinal Round Technical Setting:

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 10 minutes from the chosen topic.
4. The video is then uploaded on the IWSC website <http://iwsc.walisongo.ac.id> until 20th July 2024 at 18.00 pm +UTC (Jakarta time).



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**SCIENTIFIC PAPER: ENVIRONMENTAL ENGINEERING AND INFORMATION
TECHNOLOGY**

Semifinal Round Technical Setting:

1. 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.
2. Finalists prepare a video with a maximum duration of 10 minutes from the chosen topic.
3. Finalists upload the video on the IWSC website <http://iwsc.walisongo.ac.id> until 20th July 2024 at 18.00 pm +UTC (Jakarta time).