



Event Report

"Global Achievement: Summary of ICPC Asia Topi's Participation in the 46th and 47th ICPC World Finals"

The 46th and 47th Annual World Championships of the ICPC International Collegiate Programming Contest, held in Luxor, Egypt from April 14th to 19th, 2024, showcased the pinnacle of innovation and excellence in computer science. The event was hosted by The Arab Academy of Science, Technology, and Maritime Transport (AASTMT) and sponsored by Huawei and JetBrains. ICPC World Finals in Egypt was a postponed and combined edition of World Finals 2022 and 2023. A total of 263 teams from over 50 countries and 170 universities with around 2000 attendees participated in the competition.

As per the competition format, teams of three contestants put their algorithmic mastery to the test to unravel intricate problems within five hours. The Peking University team from China emerged as the champions of the 46th ICPC World Finals, solving 10 out of 11 problems. The 47th World Finals saw the team from the National Research University Higher School of Economics, Russia, clinch the championship by solving 9 out of 11 problems.

Representing Pakistan in both the World Finals were teams from Ghulam Ishaq Khan Institute of Engineering Sciences and Technology. Around 124 teams from across the globe participated in the 46th ICPC World Finals. Team Pentateuch from GIK Institute comprising of Omar Kashif Majeed, Muhammad Zulfiqar Ali, and Ashar Tanveer represented Pakistan in the 46th ICPC World Finals. Despite stiff competition, Team Pentateuch from GIK Institute made history by successfully solving a problem in the 46th World Finals, marking Pakistan's debut in the competition.

Around 130 teams participated in the 47th ICPC World Finals. Team AC47 from GIK Institute comprising Hamza Hasan Ellahie, Mujtaba Omar, and Syed Basim Mehmood represented Pakistan securing 103rd rank globally. The team outperformed its predecessors by solving three problems, further demonstrating GIKI's rising competitiveness on the global stage.



Team AC47 will once again represent GIKI in the prestigious 48th ICPC World Finals in Astana, Kazakhstan to be held in September 2024. In preparation, they will focus on enhancing their individual skill development and strengthening their team management strategies.

It is worth mentioning here that this year marked Huawei's fourth year as ICPC World Finals' Diamond Sponsor. In addition to the main competition, the company also organized "ICPC Challenge powered by Huawei," a supplemental mock session of the ICPC World Finals where experts from the company design algorithmic problems derived from real industrial scenarios. The Challenge was intended to share cutting-edge industrial knowledge with students to give them a pragmatic understanding of how to propel technological progress that can directly benefit humankind in the near term. To date, the company has organized a series of contest activities in partnership with the ICPC Foundation, including the ICPC Challenge powered by Huawei, ICPC Training Camps, the ICPC Challenge Championship powered by Huawei, and so on. This continuous investment reflects the company's commitment to improving overall skill levels and expanding the talent pool of the international coding community.

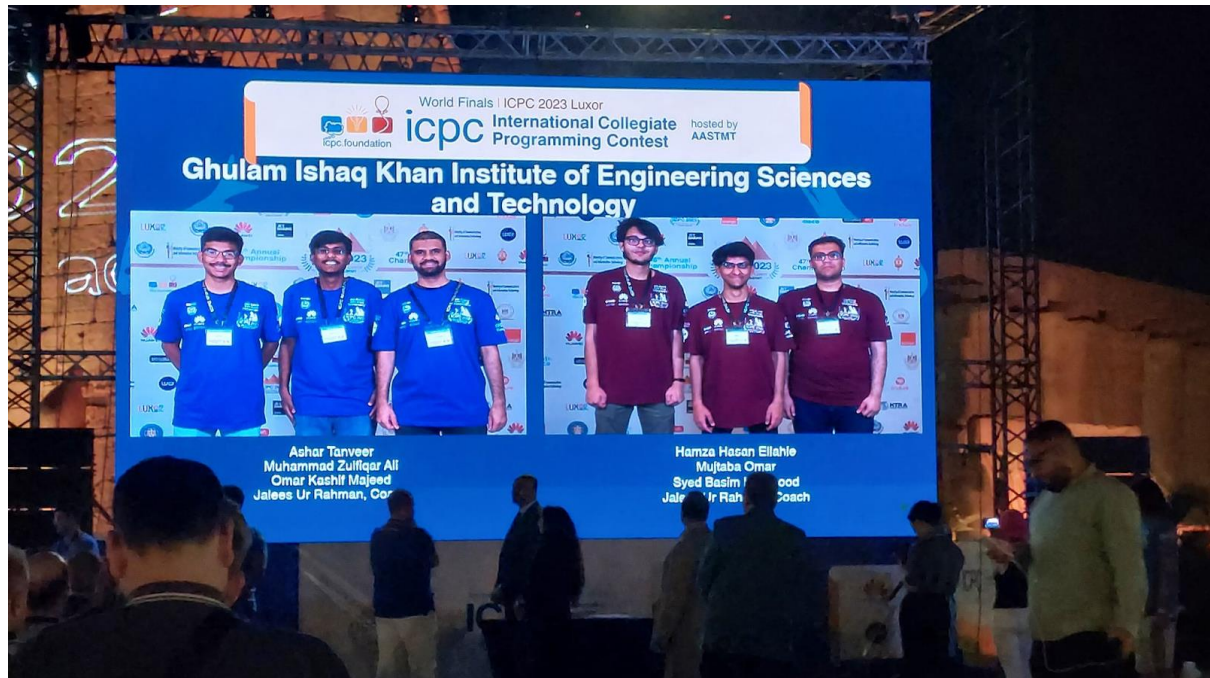
The success of the GIK Institute teams in the global arena was made possible through the unwavering support and cooperation of the authorities at GIK Institute. ICPC Asia Topi extends heartfelt gratitude to Prof. Dr. Fazal A. Khalid, Rector of GIK Institute, Prof. Dr. S. M. Hassan Zaidi, Pro-Rector (Academics), Sardar Aminullah Khan, Pro-Rector (Administration & Finance), and Dr. Qadeer Ul Hassan, Dean FCSE, for their invaluable support in facilitating our participation and achievements on the international stage.

The 46th and 47th ICPC World Finals were a monumental occasion, marking Pakistan's debut in solving problems at the highest level of competitive programming. This historic achievement underscores the growing prowess of Pakistani students in the global coding community. As ICPC Asia Topi, we take immense pride in this milestone and are committed to further enhancing the performance of our students on the international stage. Through continuous efforts in skill development, training, and collaboration, we aim to build on this success and solidify Pakistan's presence as a formidable force in the world of competitive programming.



"Candid Moments: Highlights from the 46th & 47th ICPC World Finals"

Teams participating from GIK Institute (Opening Ceremony)



Team Pentateuch – 46th ICPC World Finals





Team AC47 – 47th ICPC World Finals



Regional Contest Directors Symposium and Discussion





Contest Hall View





Results for 46th ICPC World Finals

Awards

Place	Team	Award	Solved problems	Total time	Time of last submission
1	Peking University	Gold Medal	10	1513	292
2	Massachusetts Institute of Technology	Gold Medal	9	816	179
3	National Research University Higher School of Economics	Gold Medal	9	930	252
4	University of Oxford	Gold Medal	9	1015	251
5	Moscow Institute of Physics and Technology	Silver Medal	9	1186	282
6	Seoul National University	Silver Medal	9	1200	263
7	Taras Shevchenko National University of Kyiv	Silver Medal	9	1282	293
8	University of Wisconsin-Madison	Silver Medal	8	1048	292
9	The University of Tokyo	Bronze Medal	8	1084	250
10	Tsinghua University	Bronze Medal	8	1195	299
11	Nanjing University of Posts and Telecommunications	Bronze Medal	8	1212	287
12	National Taiwan University	Bronze Medal	8	1325	276

Pentateuch got rank 124 in 46th ICPC World Finals

114	Indonesia	Bina Nusantara University (Proof by... forgor): Luis Anthonie Alkins, Owen Djonatan, Richard Alison	3	661
115	Egypt	Al-Azhar University (I'm once again asking for a DP problem): Ahmad Abdulrahman, Ahmad Almaghraby, Ahmed Magdy	2	116
116	Mexico	Universidad Autónoma de Nuevo Leon (TriAda): Angel Alejandro Aleman Alegre, Angel Manuel Tapia Avitia, Oscar Alejandro Morales Almaguer	2	238
117	Jordan	Applied Science Private University (CPX): Ayoub Abuasbeh, Belal Malabeh	2	248
118	Syria	Higher Institute for Applied Sciences and Technology (BUGABOO): Ghaffar Daher, Mohamad Al Aswad, Molham Arabia	2	274
119	Viet Nam	Ho Chi Minh City International University (HCMIU_ThinkingTourists): Lam Quoc Dinh, Trung Duc Luu, Xuan Tung Nguyen	2	309
120	Egypt	Cairo University - Faculty of Computers and Artificial Intelligence (GG Well Played): Mahmoud Rashad, Waleed Abdelhakim, Youssef Saeed	2	328
121	Egypt	The British University in Egypt (Falling Recursively): Ahmed Tammaa, Amro Sherif, Khaled Ahmed	1	30
122	Syria	Tishreen University (You'll Never WA Alone): Mohammad Bakkar, Mohammad Idris, Rabeeh Jouni	1	31
123	Brazil	Universidade Federal do Rio de Janeiro (desCE ouTro BaLão, MeAnCia!!@!1!): Christopher Ciafrino, Lucas Melick, Vinicius Prouença	1	42
124	Pakistan	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (Pentateuch): Ashar Tanveer, Muhammad Zulfiqar Ali, Omar Kashif Majeed	1	171

Region winners

Region	Team
Africa and Arab	Ain Shams University - Faculty of Computer and Information Sciences
Asia East	Peking University
Asia Pacific	Seoul National University
Asia West	Bangladesh University of Engineering and Technology
Europe	University of Oxford
Latin America	Escuela Superior De Computo Instituto Politecnico Nacional
North America	Massachusetts Institute of Technology
Northern Eurasia	National Research University Higher School of Economics



Results for 47th ICPC World Finals

Awards

Place	Team	Award	Solved problems	Total time	Time of last submission
1	National Research University Higher School of Economics	Gold Medal	9	995	216
2	Peking University	Gold Medal	9	1068	227
3	Moscow Institute of Physics and Technology	Gold Medal	9	1143	206
4	Harbour.Space University - Barcelona Campus	Gold Medal	9	1304	292
5	Tsinghua University	Silver Medal	9	1524	274
6	Nanjing University	Silver Medal	8	1013	281
7	Seoul National University	Silver Medal	8	1102	230
8	University of Waterloo	Silver Medal	8	1120	268
9	The University of Tokyo	Bronze Medal	8	1121	260
10	Tokyo Institute of Technology	Bronze Medal	8	1424	291
11	Brigham Young University	Bronze Medal	7	842	279
12	University of Warsaw	Bronze Medal	7	940	259

AC47 got rank 103 in 47th ICPC World Finals

102	Viet Nam	University of Engineering and Technology - VNU (mongoDB): Chau Vu, Nguyen Nhat Minh, Vu Nguyen Hoang	3	480
103	Pakistan	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (AC47): Hamza Hasan Ellahie, Mujtaba Omar, Syed Basim Mehmood	3	538
104	Brazil	Universidade Federal do Rio de Janeiro (Lebenslangerschicksalsschatz): Felipe Chen Wu, Gabriel Oliveira de Marçó, Letícia Freire Carvalho de Sousa	3	568
105	United States	University of Maryland (UMD RED): Cheng-Yuan Lee, Colin Galen	3	596
106	United States	Carleton College (Chinela++): Batmend Batsaikhan, Luca Araujo, Zimri Leisher	3	599
107	Romania	University of Bucharest (Echipa Sarata): Alexandra Maria Udristoiu, Bogdan-Ioan Popa, Ilie-Daniel Apostol	3	609
108	Russia	National Research Nuclear University MEPhI (Moscow Engineering Physics Institute) (Useless but powerful): Evgeny Anzin, Grigorij Ivanenko, Ivan Melnikov	3	650
109	Belarus	Belarusian State University of Informatics and Radioelectronics (Belarusian SUIR #1: So stuffy): Aliaksandr Loseu, Mikita Halukh, Raman Markavets	3	691
110	Mexico	Universidad Panamericana Campus Bonaterrea (UPSolving): Fernanda Sarahy Mancilla Nuñez, Hector Fernando Ricardez Lara, Víctor Armando Jaramillo Moreno	3	728
111	Australia	University of Melbourne (Arts Students): Hoang Giap Vu, Phuc Nguyen, Quang Anh Trinh	3	761
112	Mexico	Universidad de Guanajuato - DCNE (OWO): Diego Emir García Moreno, José Ángel Alejandro Soto, Sebastian Sánchez	3	766
113	Mexico	Universidad de Guadalajara CUCEI (Almost Retired): Abraham Baltazar Murillo Sandoval, Jesús Uriel Guzmán-Mendoza	2	255
114	Bolivia	Universidad Mayor de San Simón (Club de Frontón 2880): Nicolás Mateo Valdivia Viscarra, Oliver Winsor Pozo Flores, Rodrigo Joaquin Salguero Morales	2	279

Region winners

Region	Team
Africa and Arab	Higher Institute for Applied Sciences and Technology
Asia East	Peking University
Asia Pacific	Seoul National University
Asia West	Indian Institute of Technology - Delhi
Europe	Harbour.Space University - Barcelona Campus
Latin America	Universidad de Buenos Aires - FCEN
North America	University of Waterloo
Northern Eurasia	National Research University Higher School of Economics