

Strengthening Partnership : ICT Academy APTIKOM - HUAWEI

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Abstract.

Through strategic cooperation between university and industry, the community service initiative "Strengthening Partnership: ICT Academy APTIKOM–Huawei" seeks to establish a long-lasting digital talent ecosystem in Indonesia. The initiative, which is being implemented under the APTIKOM network with active participation from Institut Teknologi Sains Bandung (ITSB), incorporates curriculum alignment, structured talent development pathways, and worldwide ICT certification. By connecting academic learning with real-world technical standards and enabling instructors and students to gain globally recognized competencies, the program fosters innovation in higher education. The collaboration supports the development of human capital in a sustainable manner that is in line with Golden Indonesia 2045 and Indonesia's national digital transformation strategy. Regarding global development alignment, this initiative directly promotes SDGs 17 (Partnerships for the Goals) through cross-sectoral engagement between universities, professional associations, and the ICT industry, and SDG 4 (Quality Education) through ICT-driven capacity building. The results show that collaboration-driven innovation can increase equal access to technology education across Indonesian higher education institutions, boost institutional capabilities, and speed up digital preparedness.

Keywords: Innovation; Collaboration; SDGs; ITSB; Aptikom and Huawei.

I. INTRODUCTION

Huawei and academies worldwide have partnered to create the Huawei ICT Academy. Through this collaboration, the Academy trains students in Huawei ICT technologies, promotes Huawei certification, and cultivates talent with useful skills for the community and ICT sector. Digital transformation has become one of Indonesia's top national priorities, in keeping with the country's vision to create Golden Indonesia by 2045. To address the increasing demand for qualified digital talent, Huawei Indonesia launched the ICT Academy program in collaboration with APTIKOM and partner colleges. The ICT Academy aims to create a sustainable ICT talent pipeline by providing globally recognized training, certification, and curriculum integration that complies with national standards. This program contributes to the national digital ecosystem by empowering educators and students through certification, structured learning, and industry-academia collaboration[1]. The Huawei ICT Academy is an international program that promotes digital education, training, and certification in order to close the gap between university and industry. The program, which was started as part of Huawei's long-term commitment to developing talent, has already spread to over 110 countries and links vocational schools and higher education institutions with the demands of the actual world of business. There are already over 3,000 partner academies across the globe in the Huawei ICT Academy network.

These academies act as centers of innovation, incorporating Huawei's most recent innovations into academic programs, including cloud computing, AI, and cybersecurity. Students benefit from this partnership by gaining both academic understanding and real-world experience that is in line with international ICT standards. Through Huawei's online talent development platforms, more than 11,000

trained instructors support the program by providing professional training and assisting students in their study. Over 300,000 students worldwide take part in ICT Academy programs each year, gaining globally recognized certificates that improve their professional competencies and employability. Essentially, Huawei ICT Academy serves as a vital link between academia and business, enabling educational institutions, instructors, and students to support the country's digital transformation. The program backs Huawei's objective of developing a long-lasting ICT talent ecosystem that stimulates creativity and propels advancements in digital technology worldwide[1]. In order to give students access to more advanced, varied, and useful learning materials, Huawei also worked on integrating and developing localized courses in Thai and Indonesian.

Huawei introduced PV installation certification and network engineer training in 2023 in partnership with the Thailand Vocational Qualification Association and the Ministry of Labor. Huawei partnered with colleges and businesses to provide training programs, incorporating its career certification system into Thailand's armory of ICT education standards. Through these efforts, more than 300 trainees have obtained dual credentials thus far[2]. For his outstanding teaching abilities, Dr. Husni Teja Sukmana of the Association of Higher Education in Informatics and Computer Science (APTIKOM) in Indonesia took home the grand prize in this year's (2025) newly launched Teaching Competition. Additionally, special awards were given out as part of the competition to honor those who demonstrated exceptional efforts to advance digital inclusion and create a smart, sustainable future. The TECH4ALL Digital Inclusion Award went to the National University of Singapore team, and the Green Development Award went to the Universiti Teknologi Brunei team. Additionally, in an attempt to boost the growth of the ICT industry and inspire more women to pursue professions in technology and innovation, Huawei presented a special honor the Women in Tech Award which was claimed this year by Malaysia's Universiti Malaya. The award was presented by Dr. Piti Srisangnam [2].

II. METHODS

APTIKOM has been the premier organization bringing together Indonesian higher education institutions in the fields of computer science and informatics for more than 25 years. The group is dedicated to improving community service, research, and education in the field of information and communication technology [3].

To improve the country's digital capabilities, APTIKOM provides a forum for cooperation between academic institutions, experts, and lecturers. Its primary goals are to:

1. Enhance educational quality via academic excellence and innovation.
2. Fortifying Government, Industry, and Academic Partnerships Strategically.
3. Creating National Curriculum Standards that reflect the latest developments in technology.
4. Improving Member Capacity via professional growth, certification, and training.

With more than 68 awards and a strong network of member institutions, APTIKOM continues to shape the future of ICT education in Indonesia empowering a new generation of digital talent ready to lead in the global era of technology.



Fig 1. Webiste Aptikom [3]

APTIKOM directs its policies toward competency based curricula, AI research, industrial collaboration, and digital transformation to support Golden Indonesia 2045 through education and advanced technological innovation.” Prof. Dr. rer. nat. Achmad Benny Mutiara, S.Si., S.Kom. (Chairman of APTIKOM).



Fig 2. What is the direction of Aptikom? [3]

Huawei and academies worldwide have partnered to create the Huawei ICT Academy. Through this collaboration, the Academy trains students in Huawei ICT technologies, promotes Huawei certification, and cultivates talent with useful skills for the community and ICT sector.

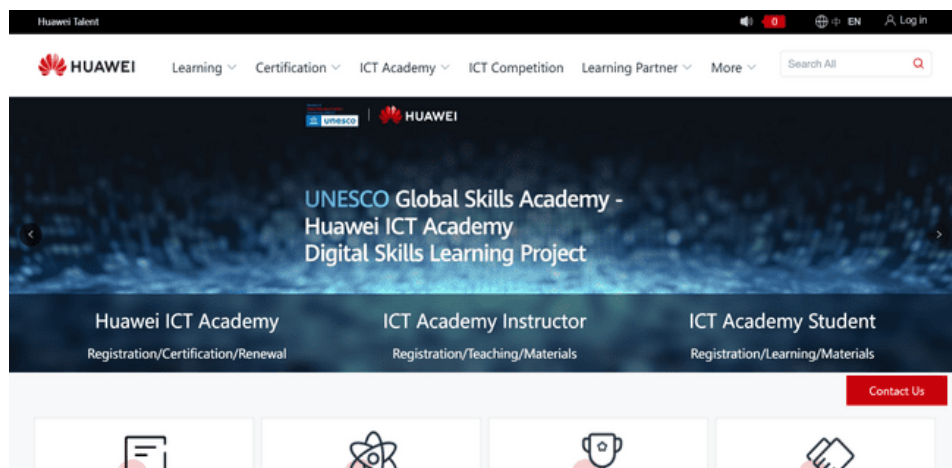


Fig 3. Website ICT Academy Huawei [4]

Through worldwide certification, a wealth of materials, and robust career routes, the Huawei ICT Academy provides a holistic ecosystem aimed at empowering educators and students. Huawei works with industry and academic partners through Global Certification to create a top-notch ICT certification program and a long-lasting talent pool. With 14 professional courses taught by more than 2,670 Huawei certified instructors worldwide, the Academy offers rich resources in 22 technological specialties. Students can prepare for globally recognized certifications and receive digital badges. Furthermore, Huawei provides Supporting Services such lab equipment, specialist textbooks, instructor and student certification programs, and a range of academic support systems. Lastly, by using Priority Employment, attendees can attend special Huawei ICT Job Fairs throughout the world, network with more than 1,000 partner firms, and access a plethora of ICT-related employment prospects [4].

III. RESULT AND DISCUSSION

In order to foster Indonesia's best digital talent, the program "Strengthening Partnership: ICT Academy APTIKOM – Huawei" is a strategic initiative aimed at improving cooperation between academics and the ICT sector. Through a solid collaboration between Huawei Indonesia and the Association of Indonesian Higher Education in Informatics and Computing (APTIKOM), this international community service activity (PkM) focuses on the integration of education, technology, and innovation.



Fig 4. Flyer Collaboration ICT Academy Huawei x APTIKOM

The occasion, which took place on September 12, 2025, provided a forum for discussion, information exchange, and collaboration. In order to investigate how the Huawei ICT Academy structure might be used throughout Indonesian universities, it gathered together academic leaders, technology specialists, and practitioners of the digital ecosystem. The partnership intends to improve access to globally recognized credentials for teachers and students, integrate curricula with international ICT standards, and bolster institutional capacity in digital education. Prominent individuals such as Yunita Anggraini (Huawei ICT Talent Ecosystem Development Assistant), Ir. Rayi Pradono Iswara, M.Sc. (Huawei ICT Talent Ecosystem Development Manager), Prof. Dr. rer. nat. Achmad Benny Mutiara Q.N. (APTİKOM Chairman), and Tiawan, S.Kom., M.Kom. (IASC APTİKOM College Development & Association) gave keynote addresses. Their conversations emphasized the value of talent ecosystem growth, collaborative innovation, and the part that universities would play in building Indonesia's digital future. Ismiyati, S.ST. was the Master of Ceremony, and Saepul Aripriyanto, M.Kom., moderated the session.

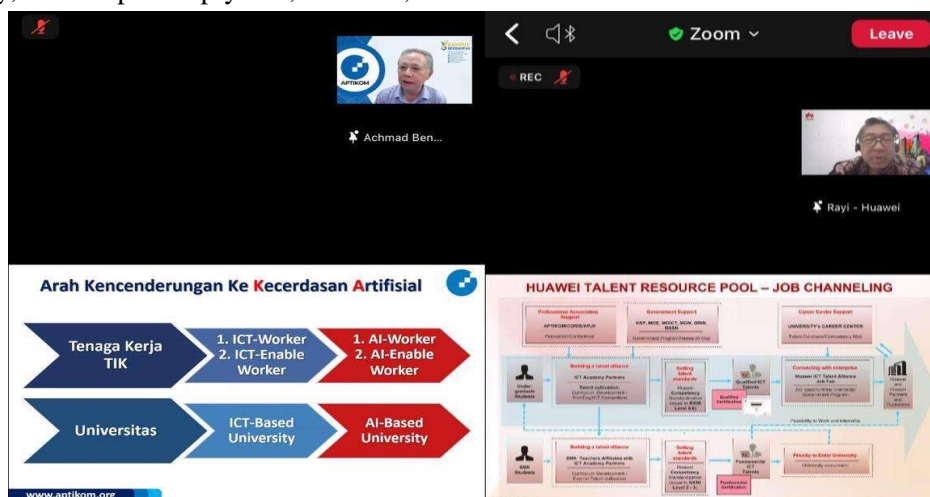


Fig 5. Opening Speech event with Chairman of Aptikom (Prof. Dr. rer. nat. Achmad Benny Mutiara, S.Si., S.Kom) and Huawei ICT Talent Ecosystem Development Manager (Ir. Rayi Pradono Iswara, M.Sc.).

Zoom was used to organize the session online, guaranteeing participation from a variety of APTIKOM network universities and institutions. All things considered, this project demonstrates APTIKOM and Huawei's mutual dedication to bridging the knowledge gap between university and business. The relationship enhances higher education capacity, promotes the development of skilled digital talents, and advances Indonesia's overarching goal of attaining sustainable digital transformation by cultivating an integrated ICT education ecosystem. The Huawei ICT Academy's "Path for Study and Exam" framework provides an organized and thorough road map that links education, career advancement, and certification within the Information and Communication Technology (ICT) ecosystem. From novices to seasoned professionals, this pathway is created to guarantee that students may gradually increase their theoretical knowledge and practical skills in line with international industry standards. Cloud computing, cloud service, Internet of Things (IoT), datacom, 5G, storage, WLAN, artificial intelligence (AI), and openEuler are the primary areas of study under Huawei's ICT ecosystem, and they are represented by the structure's first section, Technology Directions. A step-by-step learning route is offered by each domain, beginning with General Courses and progressing via Professional Courses and Certification Exams.

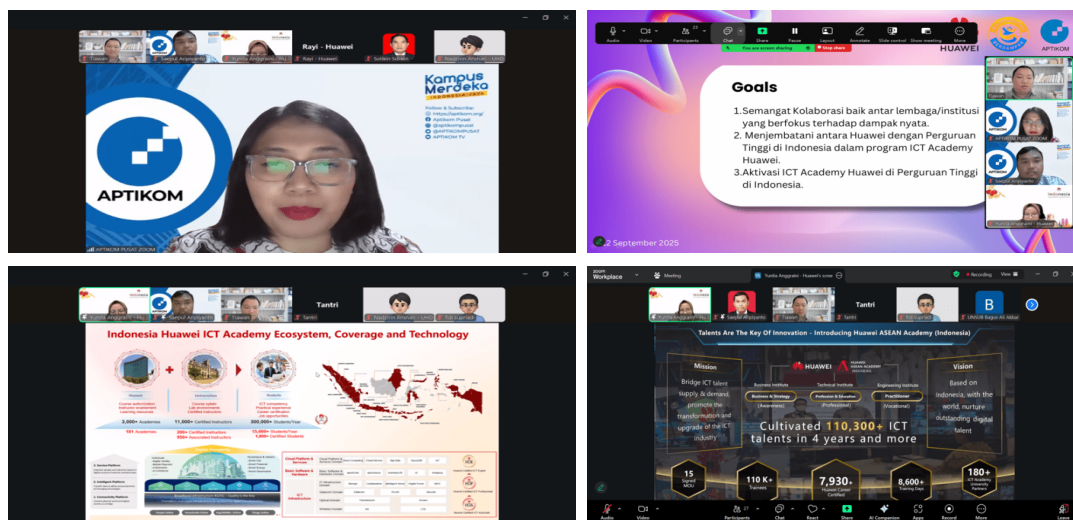


Fig 6. Implementation Collaboration Webinar ICT Academy Huawei x Aptikom

A joint online session called "Strengthening Partnership: ICT Academy APTIKOM – Huawei" was organized on September 12, 2025, by Huawei Indonesia and the Association of Indonesian Higher Education in Informatics and Computing (APTIKOM). The strategic collaboration between academics and industry in developing Indonesia's digital talent ecosystem was continued with this event. University administrators, instructors, and representatives from other higher education institutions throughout Indonesia participated in the Zoom-facilitated program.



Fig 7. Video ICT Academy Huawei [5]

Participants who enroll in the Huawei ICT Academy join an expanding network of professionals who are prepared for the future and have the know-how to influence the digital landscape of the world. By working together, we are laying the groundwork for innovation, connectedness, and long-term growth, setting up the leaders of tomorrow for success in the ICT sector. To help institutions create ICT education excellence, the Huawei ICT Academy Program identifies four progressive participation levels: Threshold, Certified, Preferred, and Advanced. At the most basic level, academies accept applications and enroll a minimum of three active students annually. As they advance, educational institutions need to have certified Huawei instructors (HCAs), boost student engagement, and guarantee that an increasing proportion of students receive Huawei Career Certifications. While Huawei invites Advanced academies (Class A and B) for their leadership and contribution to ICT talent cultivation, preferred academies show higher involvement, with at least three certified teachers and 300 active students per year. To ensure that the program operates efficiently and consistently produces globally competitive digital workers, each school appoints a project owner and point of contact to oversee coordination.

Basic Requirements

Threshold	Certified	Preferred	Advanced	
Applicant organization	Registered Huawei ICT Academy	Registered Huawei ICT Academy	Class A: Registered Huawei ICT Academy	Class B: Registered Huawei ICT Academy as local leading college or university
Instructor competency	-	≥ 1 HCAI	≥ 3 HCAs	≥ 1 associated instructor
Number of active students	≥ 3 Persons/year	≥ 30 Persons/year	≥ 300 Persons/year	-
Number of students passed Huawei Career Certification	-	≥ 10 person-times/year	≥ 100 person-times/year	-
Project owner	1			
Project contact	1			
Way to join	Upon application	Upon application	Upon invitation	Upon invitation

Fig 8. Basic Requirement ICT Academy Huawei [6]

With the goal of developing future ICT professionals by incorporating cutting-edge technologies like 5G, AI, cloud computing, and cybersecurity into academic programs, Huawei ICT Academy is a global education initiative that was founded by Huawei in partnership with more than 2,600 universities and colleges worldwide. The academy bridges the gap between academia and industry while fostering innovation and global digital transformation by providing educators and students with real-world experience and practical digital skills through industry-recognized certifications, international competitions, and hands-on learning.

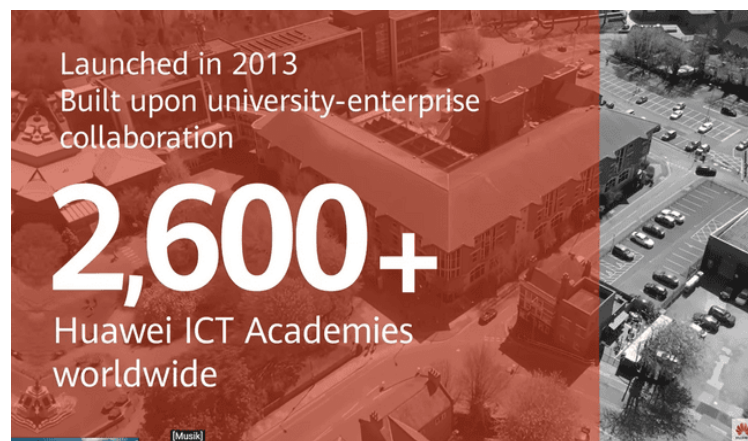


Fig 9. Path for Study and Exam ICT Academy Huawei [7]

By means of Decree No. KEP. 32/SK/DPP-APTIKOM/IX/2025, issued on September 2, 2025, the Association of Higher Education in Informatics and Computer Science (APTIKOM) formally established the ICT Academy Support Center (IASC) APTIKOM–Huawei in order to enhance cooperation with Huawei in the development of ICT talent throughout Indonesian universities. The center is in charge of organizing, carrying out, and growing ICT Academy programs that emphasize innovation, certification, and training to improve instructors' and students' digital competencies. In keeping with APTIKOM's and Huawei's joint commitment to advancing technology education in Indonesia, the management team, headed by Solikin, S.Si., M.T., and overseen by Prof. Dr. rer. nat. Achmad Benny Mutiara Q.N. and Prof. Husni Teja Sukmana, will be in charge of curriculum development, institutional engagement, and activity monitoring.



Fig 10. Decision letter from ICT Academy Huawei x Aptikom

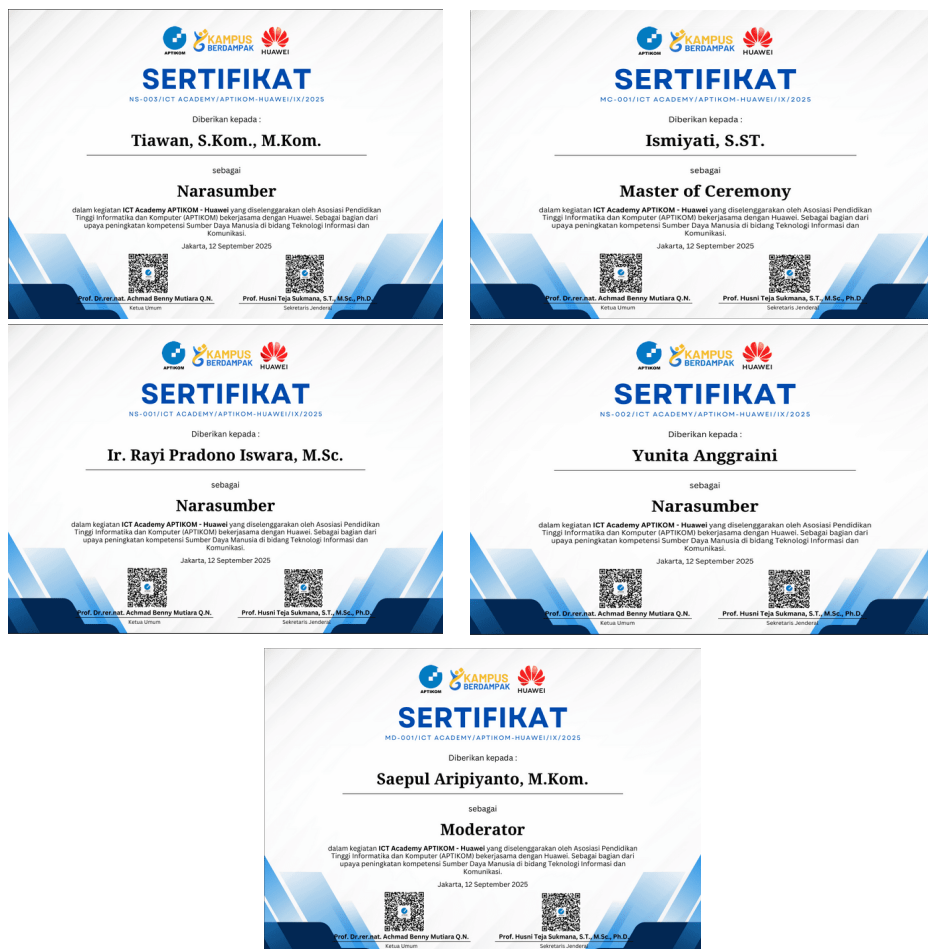


Fig 11. Certificate of Speakers Aptikom x Huawei

IV. CONCLUSION

A new turning point in the development of Indonesia's digital education ecosystem has been reached with the partnership between APTIKOM and Huawei through the ICT Academy program. This collaboration enables universities to incorporate Huawei's worldwide ICT standards into their curricula, giving students and instructors access to state of the art certifications, research opportunities, and global exposure by bringing academic institutions into line with industry demands. Both organizations share the goal of closing the knowledge gap between classroom instruction and practical technological applications so that graduates are adequately equipped to meet the changing needs of the digital age.

Additionally, the ICT Academy Support Center (IASC) APTIKOM x Huawei connects government organizations, businesses, and academic institutions to foster innovation and talent development. Through research-based learning initiatives, curriculum standardization in line with SKKNI and KKNI, and integrated learning programs like One Testing Two Certification, this partnership fosters the development of top notch talent. Huawei and APTIKOM make a substantial contribution to the national objective of developing a competitive digital workforce by training thousands of educators and learners throughout Indonesia. In the end, this collaboration shows a common dedication to achieving Golden Indonesia 2045, a country propelled by innovation, technology, and superior human capital. In addition to fortifying the link between academia and business, APTIKOM and Huawei's ongoing cooperation lays the groundwork for a long lasting ICT talent ecosystem that will help Indonesia's digital transformation and competitiveness in the global market.

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