



SOUTH CHINA UNIVERSITY
OF TECHNOLOGY



On April 18 and 25, the 2nd Guangdong-Hong Kong-Macao Undergraduate Engineering Training Integration Ability Competition and the trails of the 7th National Undergraduate Engineering Training Integration Ability Competition were held at SCUT. This session of competition adopted an offline/online approach, attracting a total of 856 participants in 214 teams from 22 colleges and

universities in the Guangdong-Hong Kong-Macao Greater Bay Area. Students from SCUT won 3 first prizes, 2 second prizes, and 5 third prizes in the competition.

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214

856

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The competition has 13 events in 4 tracks, namely the Engineering Basics Track, "Smart+" Track, Virtual Simulation Track, and Engineering Maker Track (this track will not be included in provincial-level competition). The Engineering Basics Track includes 3 events, i.e. potential-energy-driven vehicles, thermal-energy-driven vehicles and engineering culture; the "Smart+" Track has 4 events, i.e. smart logistics and handling (including 2 projects, smart robots and bridge structure design), smart inspection of underwater pipeline, smart classification of domestic wastes and smart delivery drones; the Virtual Simulation Track includes 4 events, i.e. aircraft design simulation, intelligent networking automobile design, and engineering scene digitalization and enterprise operation simulation; and the Engineering Maker Track includes 2 events, i.e. core technology challenges and exploration into future technologies.

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Engineering training forms an important practical aspect of teaching to achieve the goals of undergraduate education. Engineering training integration ability competitions are critical for strengthening practical teaching, enhancing the students' practical ability, improving their overall quality, raising their awareness and fostering their ability to innovate. The first session of competition was held at SCUT in October 2019.



On May 10, the inauguration ceremony of the Guangdong-Hong Kong-Macao University Engineering Alliance and the New Engineering Disciplines (NEDs) Construction and Development Seminar were held in Shenzhen. Participants included more than 110 representatives from 27 universities in Guangdong, Hong Kong and Macao. SCUT Vice President Li Weiqing attended the ceremony and delivered a speech on behalf of the founding universities.

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27 110

The establishment of the Alliance was jointly proposed by five universities including Harbin Institute of Technology Shenzhen, South China University of Technology, Sun Yat-sen University, Hong Kong University of science and technology and University of Macao. The Alliance aims to better serve the construction of the Greater Bay Area, promote the development of engineering education in the regions, and enhance the exchanges, cooperation and resource sharing in the engineering field among these three regions. It will also strive to jointly promote the diversified cooperation in higher education at multiple levels among universities in Guangdong, Hong Kong and Macao, and constantly explore new models and new paradigms for exchanges and cooperation, so as to build a community for universities in the three regions and make Greater Bay Area a world-leading higher education system and international education demonstration zone.

On May 14, six patents from SCUT were selected as candidates for the 22nd China Patent Award by China National Intellectual Property Administration. Among them, the project of "improved A₂/O device and process for the denitrification and dephosphorization treatment of urban sewage" was selected as a Gold Award candidate, and the "method for improving hemocompatibility of material surface by using controllable grafting technology" as a Silver Award candidate. In addition, there were also 4 projects selected as candidates of the Excellence Award. SCUT won 5 awards as the first patentee, ranking first together with Tsinghua University among other universities in China. Since 2009, SCUT has won 38 awards (including 2 Gold Awards and 3 Silver Awards) as the first patentee, ranking first among universities in the country in terms of the total number of awards.

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A₂/O
4 5
2009 38 2 3

Winning the China Patent Award, the highest award for intellectual property rights in China, demonstrates not only the capacity for innovation but also the strength of winner's intellectual property rights.

Appendix: 1. SCUT Projects Candidates of Award-winning Projects of SCUT in the 22nd China Patent Award

1.

Gold Award	Improved A ₂ /O device and process for the denitrification and dephosphorization treatment of urban sewage A ₂ /O	SCUT, Guizhou Academy of Sciences
Silver Award	Method for Improving Blood Compatibility of Material Surface by Using Controllable Grafting Technique	SCUT
Excellence Award	Wet flue gas desulfurization device using tangential spiral jet	SCUT, Guangdong Essen Environmental Technology Co., Ltd.
Excellence Award	An advanced PS oxidation reactor with two-way internal circulation for sewage treatment PS	SCUT
Excellence Award	Dual time reversal damage imaging method based on ultrasonic guided waves	SCUT, Guangdong Shantou Ultrasonic Electronics Co., Ltd.

Excellence Award	A low-density high-entropy alloy and its preparation method	Guangdong Xingfa Aluminum Co., Ltd., SCUT



On May 20, the Guangdong Science and Technology Innovation Conference was held in Guangzhou. At the conference, prizes of the 2020 Guangdong Science and Technology Award prizes were granted. SCUT won a total of 28 awards, including 9 first prizes and 19 second prizes. This ranked SCUT first in Guangdong Province in terms of both the total number of awards and first prizes.

5 20 2020
28 9 19

5	Strategy, key technology and application of treatment of industrial volatile organic compounds pollution with high air flow and low concentration	Science and Technology Progress Award 1st Prize
6	Key technology and integrated application of high-density and high-reliability LED display devices LED	Science and Technology Progress Award 1st Prize
7	The innovation and application of key technologies in tumor radiomics	Science and Technology Progress Award 1st Prize
8	R&D and industrialization of key technologies for large-size ceramic thin plates	Science and Technology Progress Award 1st Prize
9	Development and application of new technologies and new products for prevention and control of important swine bacterial diseases	Science and Technology Progress Award 1st Prize

Growth of top 100 disciplines of SCUT in ShanghaiRanking's Global Ranking of Academic Subjects



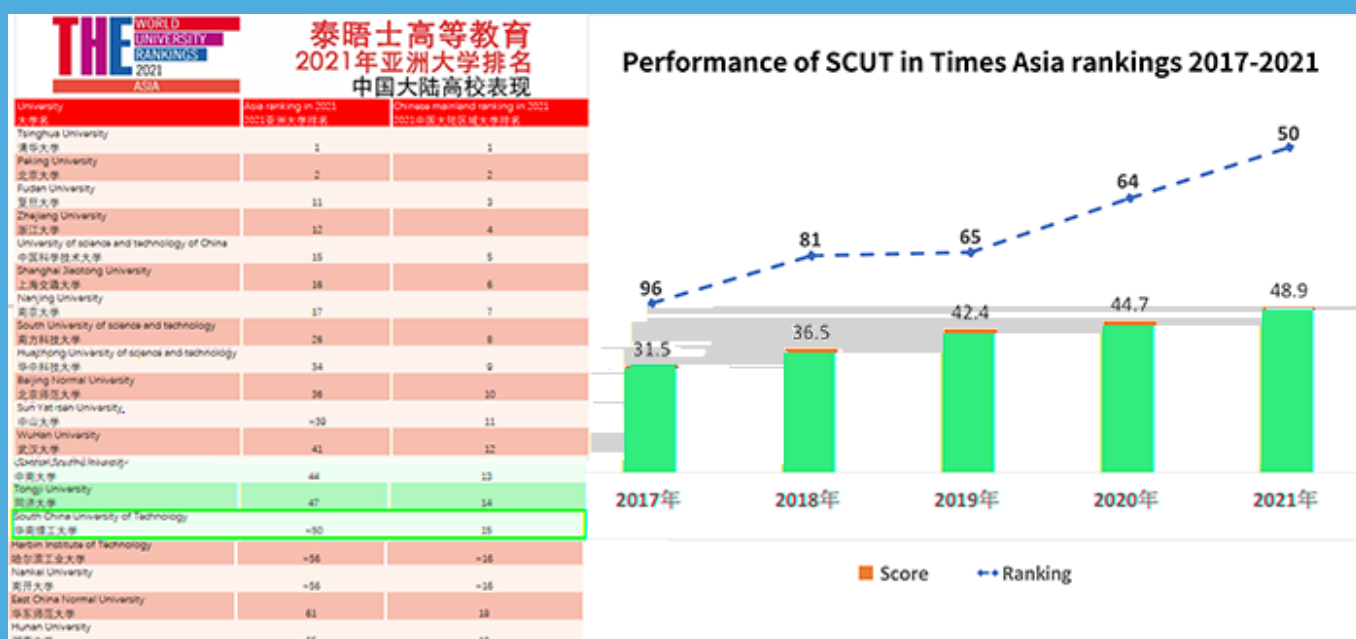
26 subjects of SCUT made the list of the 2021 Global Ranking of Academic Subjects released on May 26 by ShanghaiRanking. These included 3 subjects ranked among the top 10 in the Global Ranking, contributing SCUT 6th in the Best Chinese Universities Ranking; 9 subjects among the top 50 in Global Ranking, with SCUT 15th in the Best Chinese Universities Ranking; 18 subjects among the top 100 in Global Ranking, being SCUT 11th in the Best Chinese Universities Ranking.

5	26	2021	26	3
10	6	9	50	15
100	11	18		

SCUT has been making steady progress in ShanghaiRanking's Global Ranking of Academic Subjects.

Compared with 2020, SCUT has one more subject ranking among the top 10, namely chemical engineering (8th); three more among the top 100, namely biomedical engineering (51st-75th), civil engineering (76th-100th), environmental science and engineering (76th-100th); two more subjects made the list, namely pharmacy (401st-500th) and earth sciences (401st-500th). 17 subjects including mathematics, management, and biomedical engineering have made significant progress.

				2020		10
1	8	100	3		51-75	
76-100		76-100		2	401-500	
401-500			17			



On June 2, the Times Higher Education Asia University Rankings 2021 were released. A total of 551 Asian universities from 30 countries/regions were shortlisted. SCUT ranked among the top 50 Asian universities for the first time and 15th among universities in the Chinese mainland, up by 14 places from last year's ranking.

6	2	Times Higher Education	30	551
		50	15	14

In recent years, as SCUT has been picking up the pace with the development of the "Double First-Class" university and the international campus in Guangzhou, it has also been gaining academic strength and international presence. With the comprehensive score increased from 31.5 in 2017 to 48.9 in 2021, its rank in the Times Higher Education Asia University Rankings rose from 96th to 50th. SCUT has been making progress in various performance indicators. In 2021, it scored 87.8 points and 69 points in the indicators of "industry income" and "citations", ranking 45th and 57th in Asia respectively.

				2017	31.5	2021	48.9
96	50			2021			87.8
69		45	57				

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