



SCUT Newsletter



1. SCUT wins 3 first prizes in the 2nd Guangdong-Hong Kong-Macao Undergraduate Engineering Training Integration Ability Competition

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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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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.



2. Guangdong-Hong Kong-Macao University Engineering Alliance established to better serve the GBA development

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.

3. SCUT stands out again in China Patent Award selection with 1 Gold, 1 Silver and 4 Excellence Awards

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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 A₀/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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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.

Category	Patent Name	Patentee
Gold Award	Improved A ₀ /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
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4. SCUT China stands out again with 28 achievements winning the 2020 Guangdong Science and Technology Award

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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.

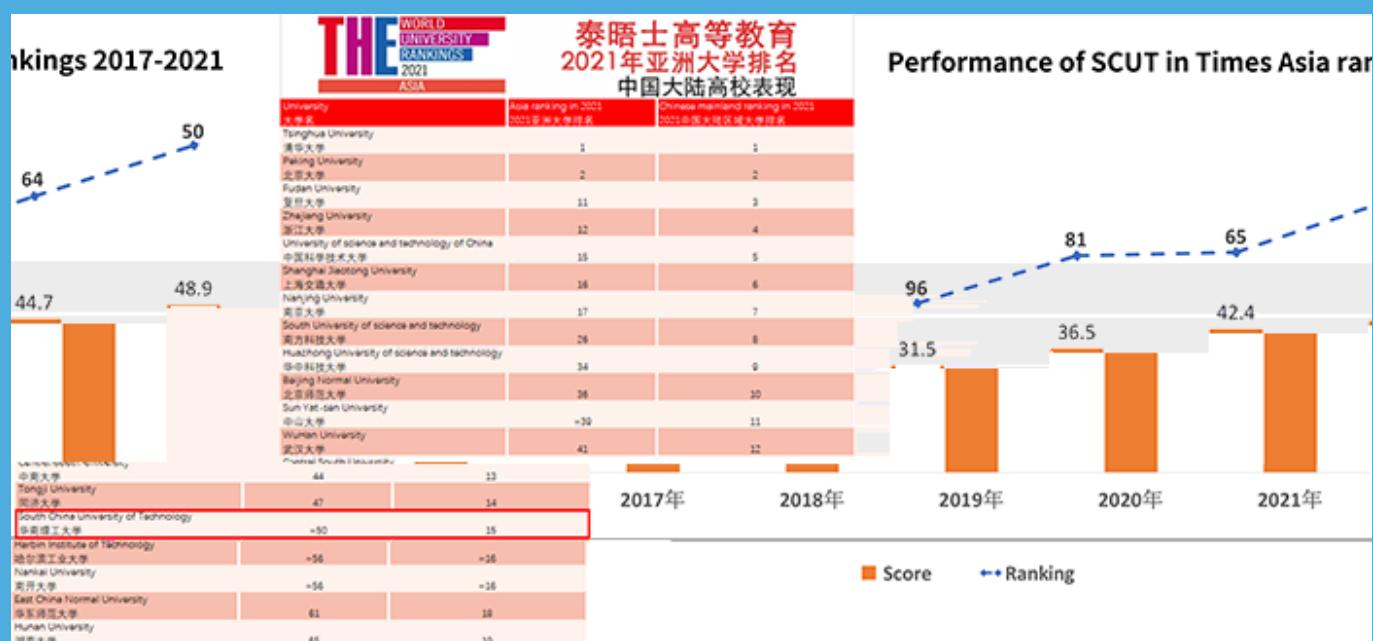
5 20 2020
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List of SCUT Projects Winning First Prize in the 2020 Guangdong Science and Technology Award

2020 p r i

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.

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



6. SCUT ranks top 50 in the Times Higher Education Asia University Rankings 2021 for the first time

2021 **50**

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	2021
96	50	2021
69	45	57