中国（国际）3D打印创新创业大赛
International 3D Printing Innovation and Entrepreneurship Competition

2021 I3IEC Final Competition Rules and Guidance

I. Competition

International 3D Printing Innovation and Entrepreneurship Competition (I3IEC)

II. Competition Organizers

National Innovation Institute of Additive Manufacturing (NIIAM), China

University Alliance of the Silk Road (UASR)

Shanghai Jiaotong University, China

III. Sponsor

ANYCUBIC
National Innovation Institute of Additive Manufacturing(NIIAM)

IV. Final Competition Requirements

Theme: Creative Design and Innovative Applications with 3D Printing
Open and independent proposition; design direction includes but is not limited to art and cultural design, home design, urban architectural design, industrial design/product design, mechanical design, etc.

V. Timeline:

Presentation PPT File ： send before March 21th, 2022(to I3DC@niiam.cn)
Internet Connection Test： March 24th , 2022
Work Preparation : before March 25th , 2022
Final Competition: March 25th , 2022, Xi'an,China（Online & Offline）
Final Award Annoucement： March 26th , 2022 Xi'an,China（Offline）
March 27th , 2022（Online）

VI. Schedule

上海交通大學 SHANGHAI JIAO TONG UNIVERSITY
学生创新中心 Student Innovation Center
国家增材制造创新中心 National Innovation Institute of Additive Manufacturing

Date	Time (Beijing time)	Agenda	Remarks
March 24th 2022	17:00-18:00	1. Internet Connection Test 2. Sign in, Get Final Competition sequence 3. Announcement of Final Rules,get familiar with procedure	download and test conference App platform in advance .
March 25th,2022	8:30-11:30 13:00-15:00	Work presentation and demonstration (8 mins)+questions (4 mins)	China Mainland Finalists
	15:00-16:30	Work presentation and demonstration (8 mins)+questions (4 mins)	International and Hong Kong, Macao and Taiwan finalists
March 26th,2022	12:00-13:00	Awarding Ceremony(Xi'an)	Annouce Winners

VII. Requirements

1. Presentation language :English
2. Presentation : 8 minutes(Presentation) + 4 minutes(Questions and Answers)
3. The work of the Finalists from Mainland China shall be based on the preliminary work. Finalists shall re-optimize the design based on the Preliminary works, and demonstrate the the real work during the final competition.
4. All participating teams shall prepare the Power Point and print the physic work in advance. PPT is recommended to use Microsoft Office 2013 and above version. The physic work shall be printed by the participants themselves before the Final.
5. PPT contents shall: compare or explain the optimized design of the preliminary work（Finalists from Mainland）; to reflect the commercial ability of the work, test the actual value and function and solve specific practical problems, to analyze the difference between the designed products and the existing products in the market, and demonstrate the market prospect and advantages.of 3D printing Technology.

VIII. Scoring criteria

Final results = live or online presentation, explanation and defense .

Evaluation indicators		Description	Score
	Creativity	The parts of creativity of design should be reflected and compared or explained.	25
	Technicality	The design of the work is reasonable, which can effectively reflect the advantages of 3D printing technology and highlight the characteristics of additive manufacturing.	20
	Practicality and Commerciality	It has certain practical value, can display product functions on site; functions are consistent with the design theme. By analyzing the differences between the designed products and existing products in the market, the advantages and applications of 3D printing are reflected, and the market prospects of the products are demonstrated.	20
	Integrity	The work is complete, can express the design intention, achieve the predetermined function.	10
	Aesthetics	The work should have a reasonable structure, harmonious color and a beautiful appearance.	10
	Presentation	Be able to express the idea clearly and organize the contents logically.	15

The judges comprehensively score from the above dimensions according to the performance of the finalists. The organizing committee calculates the final scores according to the average score given by the judges, and announces the list of winners at the award ceremony.

IX. Scoring criteria

Award	Quantity	Prize
First prize	One team	Certificate and RMB 10,000 in Cash
Second prize	Two Teams	Certificate and Photon Mono X*1, Wash&Cure Plus*1, photosensitive resin 1KG*2 bottle or 6,000 RMB in Cash
Third prize	Four Teams	Certificate and Photon Mono X*1 table, photosensitive resin 1KG*2 bottle,or RMB 4,000 in Cash
Excellence Award	One Team	Certificate of Award and Vyper*1, PLA，2 Rolls or RBM 1.000 in Cash

Selection and award description:

1. The prize is sponsored by ANYCUBIC and NIIAM;
2. Excellent Instructor Title： "excellent instructor" will award to the Instructors of the First ,Second and Third Prize Winners;
3. All Prize are awarded as the "team", and all awards shall not be rewarded twice;
4. The team absent in the final competition online shall be deemed as abstention and will not be awarded;
5. In the evaluation process, if the total result of the competition is the same, the number of the awards will increase, and the number of the latter awards will decrease accordingly;
6. Prize in cash (if there is)includes tax;
7. Prize winners from Hongkong, Macao and Taiwan and overseas international Finalists shall be in cash, Prize winners from mainland,China will be in object.

X.Fees for competition

This competition is free of charge for all participants.Expenses like travelling or incurred or arozed preaparing for the competition shall be borne by the participants.

XI.Contact Information

Contacts	Ms. Xu	**Phone:**	+86 136-7929-2951
		Email:	I3DC@niiam.cn
Website:	www.iame.cn/en/3d/competition		

WeChat QR-code:	

Remarks：

1. For communication,2021 I3IEC Organizing Committtee shall set up a Wechat group before the Final to annouce details of the Final, please add the above WeChat before March 1st ,2022.
2. Due to the recurrence of the epidemic, the 2021 I3IEC Organizing Committee may adjust the competition at any time. The organizing committee has the final right to interpret the Rules and Guidance, to cancel or postpone the competition if necessary.

Attachment:

2021 I3IEC Finalists List

Name of the work	Team name	Team leader
Autonomous Corona-Prevention Robot	KNU Hustar-Robot	Lee Hwa Soo
Application of 3D Printing Techniques on Cultural Relics Preservation	The Matrix	Mingci Liu
Novel Bioresorbable Mg-based alloys for patient-specific implants using laser additive manufacturing	Goal Diggers	Weijie XIE
Application of 3D printing technology for motorsport suspension optimization	HKPolyU E-Formula Racing Team, Suspension Team	Jichen YAO
A vision of the future of Driverless logistics vehicle	Hearts Of Iron	Yuzhou LIU
Polygon	Polygon	SHU JINWOOK
Filamentto Winglet	Filamentto	Muhammed Pilis
Under-actuated dexterous hand design	You say it's all right	Zhu Gaohan
Tattlebody cupping	Anything is possible	Zhang zhenyang
Modular unmanned catamaran based on SLA 3D printing technology	Sea of clouds	Jiang Chenyue
Desktop keyboard multi-purpose vacuum cleaner	Luminous Polymaker Star	Lei Shuangyu
Ground effect aircraft	KAMA	Cao Runzhen
Knee Care Nikle	Stiff knee	Zhang Wan Ying
Wheel-leg hybrid deformable robot using cam follower principle	Cool Name Pending	Jiang Hang

Fish leaping to the dragon gate	Dive	Yuan Yuxing
"One Hundred Years • Dreaming" Ceramic 3D Printing Works	Shandong Industrial Ceramic Research & Design Institute Co., Ltd.	Liu Shihao
Disabled pet assisted support front wheel	I can only climb	Ding Hong
Jiaotong University printed in the heart	Anxious	Shen Tingwei
Automatic cooling cup	Great	Li Zheng
Multi-material light-curing printing shape memory device	B301	Zhang Mengjie
Color Ceramic 3D Printer	Undecided	Huang Zifan
Safe Twist Smart elderly hula hoop	After Party	Wu Shoutao
Blind Relief Book	Yuan Bin research team	Yuan Bin
Koi afterglow	Xiao Ya	Huang Haitao
butterboy	Light and Space Studio	Tao Ran
Easy chair	Health brigade	Yang Zhikai
Introduction to deformation wheel	Eagles	Zhou Kai
charbox	Can not bear to look	Yin Boer
Introduction of bomb disposal robot	Eagles	Chen Mingkang
Smart pill box	Hefei University of Technology	Gu Hanqi
Single-axis rotor variable airflow UAV	Egrets	Balhouse
Safe charging pile	GRE320+	Gao Wei