

# **Guideline of the Competition**

## **The 1<sup>st</sup> InterSchool Fintech Application and Innovation Competition (AI@FinTech-2019)**

### ***1. Introduction***

The 1<sup>st</sup> Interschool Fintech Application and Innovation Competition is co-organized by Hong Kong Subsidized Secondary Schools Council, Grant School Council, Hong Kong Association for Computer Education and Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong. The competition aims to encourage students to learn science, technology, engineering and mathematics (STEM) in financial application and innovation of science and technology's enthusiasm, improve students set up system model, the mathematical method and computing the comprehensive ability of solving practical problems, to encourage students to take part in the extra-curricular activities of science and technology, expand the knowledge level, cultivate creative spirit, get ready to the university's life.

### ***2. Nature of the Competition***

The contest questions are derived from practical problems that have been properly simplified and processed. Participants are not required to acquire in-depth specialized knowledge in advance, but only need to learn mathematics courses in secondary schools. There is a great deal of flexibility in the questions for participants to give full play to their creativity. Participants should complete a report according to the requirements of the topic. Evaluation is based on the rationality of hypothesis, creativity of modeling, correctness of results and clarity of written expression.

### ***3. Team Formation***

- 3.1 The competition will be held in teams. Each team must consist of 2 students.
- 3.2 The participating students must be in Form 4-6 / grade 10-12.
- 3.3 All participating teams must register through their secondary schools.
- 3.4 Each secondary school may send multiple teams of students to participate in the competition. However, due to the limited space available, the organizer will try to allocate an equal number of places to each secondary school. The organizer will also have the right to determine the final number of teams to participate in the competition.
- 3.5 Each secondary school may have a team advisor (e.g a school teacher) who is responsible for pre-competition guidance and participation.
- 3.6 Participants are required to submit an online application form by June 14, 2019 (Friday).

#### **4. Seminars**

- 4.1. The organizer will arrange ONE public briefing seminar (Date: May 11, 2019 (Saturday)) and TWO seminars for students (Date: June 29, 2019 (Saturday)).
- 4.2. The purpose of the public seminar is to introduce the purpose, content, team participation and competition form of the competition.
- 4.3. Two student seminars will be held on the other day are mainly for the participating students, all advisors of the participating teams are welcome to attend. This seminar series is designed to teach the systems modeling, optimization techniques and the basics of fintech. Certificate of attendance will be issued to all participating students and team advisors if they attend all student seminars.

#### **5. About the Competition**

- 5.1. The competition is divided into two parts: preliminary and final.
- 5.2. Preliminary (first round) form:
  - 5.2.1. The preliminary (first round) contest is held in the form of written report. Teams are required to complete a written report (in MS word format) of not more than 10 pages (except appendices) within the time limit set by the organizer. The report should include: problem description, model hypothesis, detailed solution steps, solution results, analysis and test of results, model improvement, etc. If the procedure is to be implemented by computer programs, the program files must also be submitted.
  - 5.2.2. On the day of the preliminary (first round) (Date: 6 July, 2019, Time: 10 am to 5pm), The participants must submit their report before 5:00 PM. Lunch boxes will be arranged for participants from 12:00 noon to 1:00 PM.
  - 5.2.3. The participating students must bring valid student ID cards and neatly dressed school uniforms to the competition at the venue provided by the organizer. The competition is played in teams, during the competition, both players have to enter and leave the competition venue at the same time. If any member is late more than one hour, the whole team will be disqualified.
  - 5.2.4. Participants will be randomly assigned seats and provided with computers to search various resources on the Internet. The relevant software will be provided by the organizer.
  - 5.2.5. During the competition, teams are strictly prohibited from seeking help from others (e.g. through Internet conversation, instant messaging, telephone, etc.).
  - 5.2.6. All submitted reports and program files must ALL be saved in the specified location designated by the organizer.
  - 5.2.7. Hard disk, compact disc, flash memory and other storage devices are not allowed in the competition venue. Participating teams must email their reports, program documents and other documents to their own email accounts in preparation for the finals. The contestants are not allowed to install any software.

### 5.3. Preliminary (second round)

5.3.1. The Preliminary (second round) will be contested by oral presentation and questions. All teams must prepare their own presentation files (MS PPT) in advance; if the teams do not prepare the presentation files will be treated as waivers. Teams may also revise their report which submitted at the preliminary (first round) of the competition, but must to inform to organizer in their oral presentations during the second round.

5.3.2. The Preliminary (second round) will be held about a week after the preliminary (first round) (Date: 13 July, 2019 (Saturday)), from 10 a.m. to 12 nn.

5.3.3. Students must bring along their valid student ID cards and wear proper school uniforms to compete at the venue provided by the organizer.

5.3.4. 10 minutes will be given to each team for oral presentation and required to answer questions from the judges and the public within the next 5 minutes.

5.4 The first and second round results account for 70% and 30% of the preliminary results respectively. Preliminary results will be announced at the final.

### 5.5 Final

5.5.1 The finals will be held in the form of oral presentations and questions. All teams are required to make oral presentation in the presentation file submitted for the preliminary (second round). Teams may also revise their answers at the preliminary stage of the competition in their briefings, but must do so in their oral presentations.

5.5.2 The final will be held on the day in the afternoon (Saturday, 13 July) from 2.00 p.m. to 5.00 p.m.

5.5.3 the selected teams will be announced in the final. If any player in selected team is absent, the whole team will be disqualified and will not receive any award.

5.5.4 Each team will be given 10 minutes for oral presentation and will be required to answer questions from the judges and the public within the next 10 minutes.

5.5.5 The final team that does not qualify for the finals shall have no objection.

5.6 The results of the competition will be announced after the end of the final competition, followed by the award ceremony.

## **6. Rules and Regulations**

6.1. The participating teams shall try their best to complete the competition.

6.2. Harassment of other competitors is strictly prohibited.

6.3. Destruction of facilities is strictly prohibited.

6.4. Complaints should be addressed to the organizer within 15 minutes of the close of the competition. All results shall be subject to the decision of the organizer.

- 6.5. Students who violate the rules of the competition, the scores of the team will be invalid and will be disqualified of the competition.
- 6.6. Eating and drinking is NOT allowed in the competition venue.
- 6.7. The organizer reserves the right of using the names, photos and entries of the participating schools for publicity purposes without the consent of the participants.

## **7. *Evaluation and Awards***

- 7.1. The evaluation criteria of the competition are based on the rationality of hypothesis, creativity of modeling, correctness of results, technical analysis and clarity of language expression.
- 7.2. Experts of Fintech area will be invited as an evaluation committee who will be selected the winners of the Top 3 (Champion, 1<sup>st</sup> runner up, 2<sup>nd</sup> runner up ) and other awards.
- 7.3. All winners will be awarded with a certificate of award and book coupons of a certain value. The schools of winner will be presented with a trophy as souvenir. Those who have completed the competition will be awarded a certificate of eligibility or a certificate of participation. In addition, all DSE candidates will be given the opportunity to interview if they place BEng of financial technology (JS4428) of CUHK in Band A in the JUPAS programme selection ranking.

## **8. *Sponsorship***

- 8.1. No application fee is required.
- 8.2. Contest fees and prizes will be sponsored by the Department of Systems Engineering and Engineering Management, CUHK.

## **9. *Remarks***

- 9.1. The organizer reserves the right to amend the rules and regulations from time to time.
- 9.2. The results of the competition shall be subject to the final decision of the organizer.