

## EDUCATION BUREAU CIRCULAR MEMORANDUM NO.191/2018

From: Secretary for Education

To: Heads of Primary and  
Secondary Schools

Ref.: (336) in EDB(CD/LS)/ISS/60/1/2 (6)

Date: 26 November 2018

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### Smart City Project Programme 2018/19

#### SUMMARY

The purpose of this circular memorandum is to invite heads of primary and secondary schools to participate in the “Smart City Project Programme 2018/19” organised by the Education Bureau (EDB).

#### DETAILS

2. The EDB organised the “Smart City Project Programme” for the first time in the last school year, with schools actively participated in the programme. The EDB will organise the programme again this school year (2018/19). The programme mainly consists of a project exhibition under the theme “Smart City”, supplemented by a series of events for students, including induction trips (partially subsidised) to “Smart City”, day camps, study trips outside Hong Kong and summer camps on STEM Education, as well as seminars and workshops for both teachers and students. All primary and secondary schools in Hong Kong are cordially invited to join the programme.

3. The programme aims at providing opportunities for students to integrate and apply the knowledge and skills acquired from the school curriculum, in particular from STEM Education, to think about and suggest innovative ways to realise the ideas of Smart City in the development of their home, school, community and city environment.

4. There are Primary (P.4 – P.6), Junior Secondary (S.1 – S.3) and Senior Secondary (S.4 – S.6) categories. Each school can nominate a maximum of four teams to join the programme. For details, please refer to Annex 1 or the website: <https://ls.edb.hkedcity.net/en/smartcity2019/index.php>.

5. Interested schools should complete and return the enclosed application form

(Annex 2 or 3) and a preliminary proposal (Annex 4) to the Liberal Studies Section, EDB by email to [smartcity2019@edb.gov.hk](mailto:smartcity2019@edb.gov.hk) on or before 21 January 2019 (Monday).

**ENQUIRY**

6. For enquiries, please contact Mr KEUNG Ho Sang at 2892 6314 or Ms WANG Yuen Yee, Candice at 2892 6420.

Joe KS NG  
for Secretary for Education

cc: Heads of Sections – for information

## **Smart City Project Programme 2018/19**

### **Details of the programme**

#### **1. Introduction**

The programme mainly consists of a project exhibition under the theme “Smart City”, supplemented by a series of events for students, including induction trips (partially subsidised) to “Smart City”, day camps, study trips outside Hong Kong and summer camps on STEM Education, as well as seminars and workshops for both teachers and students. All primary and secondary schools of Hong Kong will be invited to nominate student teams to join the programme to prepare STEM-related projects on “Smart City” . For details of “Smart City”, schools can refer to the following website of the Office of the Government Chief Information Officer : <https://www.smartcity.gov.hk>.

#### **2. Objectives**

The programme aims at facilitating students:

- to understand the development of Smart City is to address urban challenges, to enhance the effectiveness of city management, and to improve people’s quality of living as well as Hong Kong’s sustainability, efficiency and safety;
- to further develop the knowledge and skills acquired from “STEM Education”, “IT in Education”, as well as the study of “Climate Change”, “Biodiversity” and “Healthy Lifestyle” through this programme;
- to integrate and apply the afore-mentioned knowledge and skills to suggest innovative ways to realise the ideas of Smart City in the development of their home, school, community and city environment, and
- to develop positive values and attitudes, including humanistic spirit and values related to science, technology, and innovation.

#### **3. Categories**

- Primary (P.4 – P.6)
- Junior Secondary (S.1 – S.3)
- Senior Secondary (S.4 – S.6)

#### **4. Main themes of the project**

- Schools should prepare projects for the exhibition based on, but not limited to, the following themes:
  - Primary – “Smart Living”

- Junior Secondary – “Smart Environment”
- Senior Secondary – “Smart Hong Kong for Tomorrow”
- The exhibits for all categories should include STEM-related elements.

## 5. Details of the programme

### A. Content

- The project should involve an enquiry study on how the ideas of Smart City can be implemented at home, school, community or city level. It should include a proposal on how to respond to a daily-life issue via the development of “Smart Living”, “Smart Environment”, or “Smart Hong Kong for tomorrow”.
- The project for final submission should contain concrete suggestions on how the proposal can be implemented. This proposal can be presented in the form of workable products, prototypes, models, video, computer presentation, or equivalent.

### B. First-round selection of projects

- Interested schools need to complete the application form (Annex 2 or 3) and submit it with a preliminary project proposal (Annex 4) on or before 21 January 2019 (Monday).
- The proposal should not be more than 1 A-4 sheet and should contain the theme, the title and a brief introduction of the project.
- Schools will be informed of the first-round selection results on or before 18 February 2019 (Monday).
- Students of the selected teams will be invited to join a 1-full day Smart City Induction Trip<sup>1</sup> (partially subsidised), a STEM Education Day Camp<sup>2</sup>, and other training programmes<sup>3</sup> to be held between March and May 2019.

### C. Second-round selection of projects

- Teams entering the second round will be required to submit on or before 6 May 2019

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<sup>1</sup> The Smart City Induction Trip is a 1 full-day partially subsidised study trip. It aims at enriching students’ understanding of “Smart City” and the targeted destination will be Shenzhen.

<sup>2</sup> The STEM Education Day Camp comprises of 1 full-day activities to be held on Saturday / Sunday or during school holidays in Hong Kong. The camp aims at developing students’ basic research and enquiry skills for scientific investigation.

<sup>3</sup> A series of seminars and workshops on “Smart City” will be organised by EDB in collaboration with other government departments, local universities, NGOs, etc. These knowledge enrichment training will be offered in parallel with the training programmes offered by EDB on STEM Education and IT Education. Teachers and students joining this Programme will be given priority to join these events.

(Monday) a detailed report of its project study that should include:

- the objectives and the scope of the study,
  - method(s) used in the study, and
  - a brief description of how the suggested proposal is to be implemented.
- The report should demonstrate how the final product works. The report can be presented in a variety of formats including, but not limited to, written report, computer presentation, video (in the format of MPEG-4), end product, prototype or software programme. Reports in digital format should be stored in suitable mobile device (USB drive is preferable) for submission. The length of the project would be comparable to the maximum time an adjudicator spent on studying each project. The time will be:
    - 10 minutes for the ‘Primary’ category;
    - 15 minutes for the ‘Junior Secondary’ and ‘Senior Secondary’ categories.
  - All teams that can submit their project reports by the deadline will be awarded “Certificate of Appreciation”.
  - A panel of adjudicators will select 5 outstanding projects in each category to receive the “Outstanding Smart City Project Award”. Also, 5 other projects will be awarded as “commendable” projects.

#### D. Project Exhibition, Study Trips and Summer Camps

- Teams with “commendable” and “outstanding” projects will be invited to join the project exhibition scheduled to be held in late June 2019.
- Teams of the “outstanding” projects (including students and teachers) will be invited to join the Smart City Study Trips outside Hong Kong.
- Teams with “commendable” projects will be each awarded HK\$3,000 book coupons.
- The EDB will invite teams with “commendable” and “outstanding” projects to join the STEM Summer Camp which aims to provide further training opportunities for students who are interested and talented in STEM innovations.

### 6. Rules and regulations

- The project must be designed and completed by a team of FOUR students. Each student can participate in one team only. Each school can nominate a maximum of FOUR teams of students to participate in the programme.
- Participating schools will be responsible for the production costs of the project. Cost limit of each project is HK\$5,000.

- The project report can be written either in English or Chinese. For verbal version, Cantonese, English or Putonghua can be used.
- The design of all projects must be original and should not infringe on the copyright of any third parties. All sources of information quoted in writing must be explicitly acknowledged. The EDB accepts no legal responsibility whatsoever in respect of any copyright issues.
- The Adjudication Panel has complete discretion in relation to all matters concerning scores and award. In all aspects, the Panel shall be the final arbiter.

## 7. Application deadline

21 January 2019 (Monday)

## 8. Schedule

Date	Important event
21 January 2019	Application deadline
By 18 February 2019	Announcement of results of the first-round selection
March – May 2019	Training programmes: <ul style="list-style-type: none"> <li>• Smart City Induction Trips (Partially subsidised)</li> <li>• STEM Education Day Camps</li> <li>• STEM Education and IT in Education training programmes for teachers and students</li> </ul>
6 May 2019	Deadline for submission of report
Mid-May 2019	Adjudication
Late May 2019	Announcement of the results of the “Outstanding Smart City Project Awards” and “Commendable Smart City Project Award”
Last week of June 2019	Smart City Project Exhibition
Starting from the first week of July 2019	Smart City Study Trips outside Hong Kong
July – August 2019	STEM Education Summer Camp

## 9. Judging criteria for “Outstanding Project”

Criteria	Percentage
<b>A. Originality</b> <ul style="list-style-type: none"> <li>• Innovativeness / creativity</li> </ul>	20
<b>B. Scope of study, methodology and analysis</b> <ul style="list-style-type: none"> <li>• Scope of study</li> </ul>	30

<ul style="list-style-type: none"> <li>Investigation or survey methods</li> <li>Logic of data analysis</li> </ul>	
<b>C. Relevance</b> <ul style="list-style-type: none"> <li>Related to the theme</li> <li>Application of knowledge / skills / values</li> </ul>	10
<b>D. Design implementation</b> <ul style="list-style-type: none"> <li>Feasibility of the innovative suggestions</li> <li>Craftsmanship / design of the final product</li> <li>Testing and evaluation of the design solution</li> </ul>	30
<b>E. Presentation skills</b> <ul style="list-style-type: none"> <li>Presentation of data and suggestions</li> <li>Fluency of language</li> </ul>	10

## 10. Award, prizes and training opportunities

Participating teams will have the chance to receive the following awards, prizes and training opportunities:

<b>Awards, Prizes and Training Opportunities</b>	
Teams that have passed the first-round selection	<ul style="list-style-type: none"> <li>Smart City Induction Trips for teachers and students (Partially subsidised)</li> <li>STEM Education Day Camps for students</li> <li>Smart City, STEM Education and IT in Education training programmes for teachers and students</li> </ul>
Teams that submit their projects by the deadline in the second-round selection	<ul style="list-style-type: none"> <li>Every participating teacher and student will receive a “Certificate of Appreciation”</li> </ul>
Teams with their projects chosen as “commendable” projects	<ul style="list-style-type: none"> <li>“Commendable Smart City Project Award” trophies for schools</li> <li>“Commendable Smart City Project Award” certificates for teachers and students</li> <li>HK\$3,000 book coupon</li> <li>STEM Education Summer Camp for students</li> </ul>
Teams with their projects chosen as “outstanding” projects	<ul style="list-style-type: none"> <li>“Outstanding Smart City Project Award” trophies for schools</li> <li>“Outstanding Smart City Project Award” certificates for teachers and students</li> <li>Smart City Study Trips outside Hong Kong for teachers and students</li> <li>STEM Education Summer Camp for students</li> </ul>

Attn.: LS Section, Education Bureau Email: smartcity2019@edb.gov.hk <b>Application deadline: 21 January 2019 (Monday)</b>	(Official use only) <b>P</b>
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**Smart City Project Programme 2018/19  
Application form – Primary (P.4 – P.6)**

School information

Name of School: \_\_\_\_\_

School Address: \_\_\_\_\_

Responsible teachers

No.	Name (English in BLOCK LETTERS)	Name (Chinese)	Tel. No	E-mail
1				
2				
3				
4				

My school would like to nominate the following team(s) of students to participate in the programme.

Team A

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		



Team B

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

Team C

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

Team D

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

Signature of School Head:

Name of School Head:

Date:

_____ _____ _____	School chop
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Attn.: LS Section, Education Bureau Email: smartcity2019@edb.gov.hk <b>Application deadline: 21 January 2019 (Monday)</b>	(Official use only)  <b>J</b>  <b>S</b>
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**Smart City Project Programme 2018/19**

**Application form – Junior Secondary (S.1 – S.3) / Senior Secondary (S.4 – S.6)**

School information

Name of School: \_\_\_\_\_

School Address: \_\_\_\_\_

Responsible teachers

No.	Name (English in BLOCK LETTERS)	Name (Chinese)	Tel. No	E-mail
1				
2				
3				
4				

My school would like to nominate the following team(s) of students to participate in the programme.

Team A

**Category: Junior Secondary (S.1 – S.3) / Senior Secondary (S.4 – S.6)\***

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

(\*Please delete as appropriate)

**Team B****Category: Junior Secondary (S.1 – S.3) / Senior Secondary (S.4 – S.6)\***

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

**Team C****Category: Junior Secondary (S.1 – S.3) / Senior Secondary (S.4 – S.6)\***

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

**Team D****Category: Junior Secondary (S.1 – S.3) / Senior Secondary (S.4 – S.6)\***

No.	Name of student	
	English (BLOCK LETTERS)	Chinese
1		
2		
3		
4		

*(\*Please delete as appropriate)*

Signature of School Head:

Name of School Head:

Date:

School chop

**Preliminary Proposal for the “Smart City Project Programme 2018/19”**

Name of school:	
Category:	Primary / Junior Secondary / Senior Secondary*
Team:	A / B / C / D*
Names of students:	

(\*Please delete as appropriate)

Note:

1. Each team should submit one preliminary proposal together with the completed application form. Please duplicate Annex 4 if your school has more than one team.
2. The project proposal would be in PDF format.

Signature of School Head:

Name of School Head:

Date:

<p>School chop</p>
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The theme and title of the project:

A brief introduction of the project: