



CONNECTION  
GLORY  
FUTURE



- Bahrain
- Iraq
- Jordan
- Kuwait
- Lebanon
- Oman
- Pakistan
- Qatar
- Saudi Arabia
- United Arab Emirates



**Dear instructors,**

The Huawei ICT Competition is an ICT technology competition for global university students with Huawei certification as the core theme of "Connectivity, Honor, Future". Huawei's ICT Competition is dedicated to building a world ICT event + international talent development communication platform. It is an important branding event for Huawei's talent ecosystem construction. In 2021, Huawei ICT Competition Middle East 2021 innovation competition will be held by online.

The innovation competition in Huawei ICT Competition focuses on innovative application and solution design capabilities based on the cutting-edge ICT technology. We hope to invite outstanding universities/colleges around the world to participate in the competition.

Through the our previous cooperation, we believe that you and your students have the ability to participate in the innovation competition. Therefore, we sincerely invite you and your students to participate in the 2021 Huawei ICT Competition Innovation Competition, and try to create valuable and meaningful innovations works to achieve a good result.

**Huawei ICT Competition Middle East 2021 Project Team**

# Huawei ICT Competition Middle East 2021 - Innovation Competition



**Environmental protection  
and governance**



**Help those in need**



**Improve people's lives**



**AI**



**Cloud Service**



**Big Data**

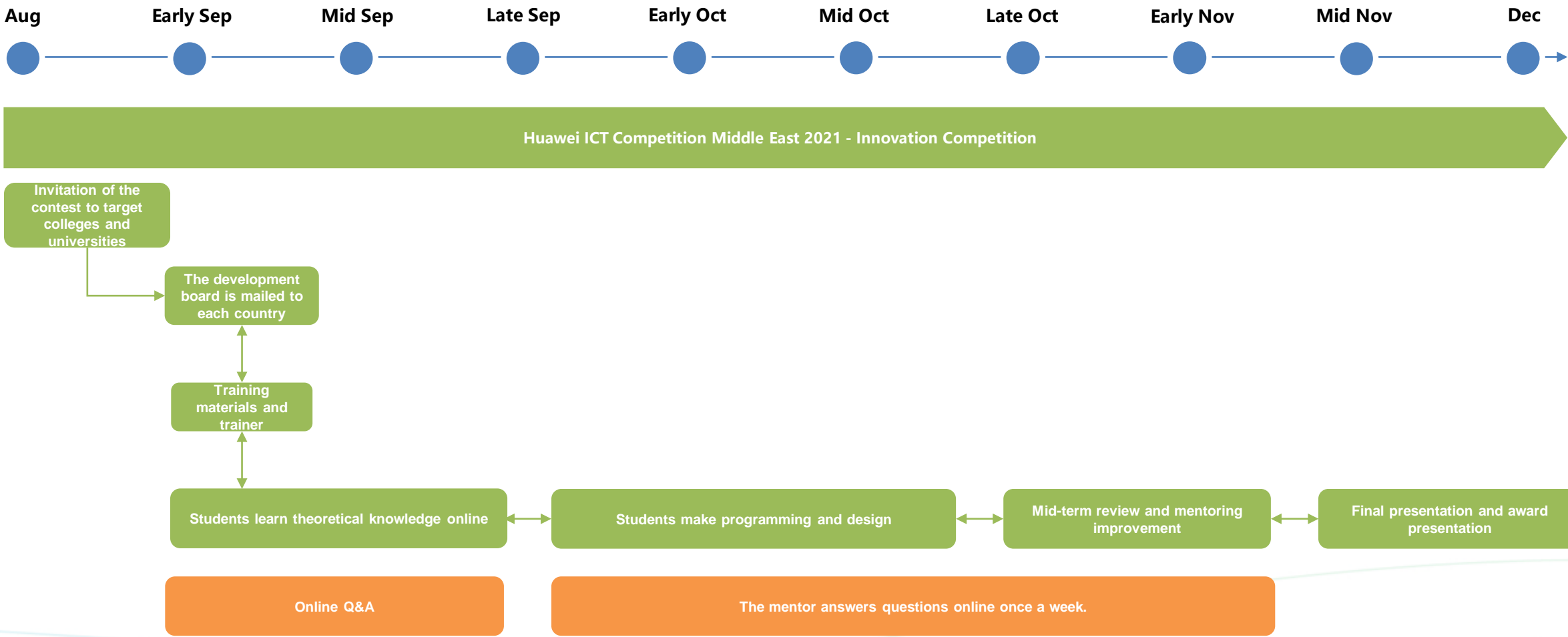
- Huawei Innovation Competition focus on the skills in using innovative technologies, and create valuable and meaningful products and solutions by the supporting of Huawei tech, like AI, Cloud, Big Data etc.

# Innovation Competition :

- **Competition Form:** Based on the Atlas development board through programming, record video introduction in advance, and conduct presentation and demonstration on site.
- **Entry rules:** Select team by invitation, leaders of each country select the best qualified university students to participate in the competition.
- **Number of participants:** Each team consists of 3 students and 1 instructor.
- **Participants:** Only undergraduates; Familiar with any of the Caffe, TensorFlow, and MindSpore AI frameworks and have C++ development experience.
- **Topic Scope**
  1. Environmental protection and management (for reference, water quality monitoring, forest disaster prevention, and smart garbage cans)
  2. Helping people in need (for reference: elderly care, blind navigation, and autistic child education)
  3. Improving people's lives (for reference, smart street lamps, smart agriculture, etc.)

Award setting	Number of Awarded Teams	Members in 1 Team	Rewards
First prize	1	3 Students + 1 Teacher	20K USD Bonus, Certificates, Prizes
Special Awards	9	3 Students + 1 Teacher	Certificates and special prizes
Out Standing Performance	10	3 Students + 1 Teacher	Certificates and special prizes

# Huawei ICT Competition Middle East 2021 - Innovation Competition : Overall Plan



## Innovation Competition: Communication and Operation

Contest platform resources	Explanation	Competition Project Team	Responsibilities
Forum	Huawei HQ provides a unified portal for the forum.	Routinely maintain the forum and remind mentors to answer questions in a timely manner.	Mentor resources, responsible for answering questions and providing technical guidance
WeLink Conference	Huawei's mentor holds a Q&A meeting in WeLink two hours a week.	Coordinate experts and arrange Q A time.	Online QA

Huawei Ascend development growth path (Preliminary knowledge of Ascend, environment setup, application development, and experimentation)

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Huawei Ascend development growth path (Preliminary knowledge of Ascend, environment setup, application development, and experimentation)

<https://www.hiascend.com/edu/growth>

# Guide of Huawei ICT Competition - Innovation Competition (1)

## Step 1. Enroll Innovation Competition :

Requirements for entrants and teams :

- ❑ Entrant students should come from top ICT major ranking universities among Huawei ICT academies with basic skills(Familiar with any of the Caffe, TensorFlow, and MindSpore AI frameworks and have C++ development experience).
- ❑ Each team consist of 3 students and 1 instructor . And they should come from the same university.
- ❑ The enroll information includes the country, university/college, team name, mailing address, contact phone number/email address, name, and privacy statement.



# Guide of Huawei ICT Competition - Innovation Competition (2)

## Step 2. Access to Huawei Cloud for Mindspore resource :

- ❑ Huawei Team will set the Huawei Cloud accounts for 20 Middle East teams. The account will be pre-charged with a certain amount for students to use Huawei Cloud resource.
- ❑ Application case: <https://www.hiascend.com/developer/case-studie>
- ❑ Online lab: <https://www.hiascend.com/edu/experiment>
- ❑ More cases: <https://gitee.com/ascend/samples>

# Guide of Huawei ICT Competition - Innovation Competition (3)

## Step 3 : Create innovative works :

- ❑ Entrants and teams create innovative idea. The innovation idea can be referred to “Huawei ICT Competition Middle East 2021 Innovation Competition-Works Innovative Table”
- ❑ It is recommended that entrants use HUAWEI Mindspore resources to design and development in areas such as AI.
- ❑ Works must be original, tutor project works of any form will be denied or use works which are used in another competitions to participate without modification.
- ❑ Instructors could give team theoretical guidance, and lead the team to participate.



# Guide of Huawei ICT Competition - Innovation Competition (4)

## Step 4 : About innovative works :

- ❑ The participating teams should consciously abide by the laws and regulations on intellectual property rights, and must not infringe on the intellectual property rights or other rights of others, and prohibit products that have intellectual property disputes.
- ❑ Suggested topic:
  - Environmental protection and governance (eg: water quality monitoring, forest disaster prevention, smart trash can, etc.)
  - Help those in need (eg: care for the elderly, navigation for the blind, education for autistic children, etc.)
  - Improve people's lives (eg: smart poultry, smart street lamps, smart agriculture, etc.)
- ◆ **Notes:** The intellectual property rights of the works are owned by the entrant team who create it. If the entrant team submits the works to participate in the Huawei Innovation Competition, Huawei has the right to display and disseminate the works.

# Guide of Huawei ICT Competition - Innovation Competition (5)

## Step 5. Submit innovation works :

- ❑ Entrants and team use HUAWEI Mindspore resources to implement the innovative solution and output a complete works.
- ❑ Entrants submit their complete works. It include design description documents, works description PPT, work demonstration, etc.
- **Design description document** mainly includes the work overview, system design overview, design and implementation based on certain technology and so on.
- **Works description PPT** mainly includes design background and purpose, feasibility and innovation analysis, system function and design overview, technical realization and technical difficulties, summary and prospect.
- **Works demonstration** : The recorded video or live demonstration of the work can be displayed.

*Reference case*





# THANK YOU

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