



Office of Corporate Relations & Alumni

ਆਈ.ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

PTU PUNJAB
TECHNICAL
UNIVERSITY
Estd. Under Punjab Technical University Act. 1996
(Punjab Act No. 1 of 1997)

Ref. No. IKGPTU/RO/CEA/60

Dated Jan/15/2018

Directors/Principals

All the Institutions/ Colleges & University Campuses
IKG Punjab Technical University

Sub: Huawei ICT Skill Competition.

Sir/ Madam

Huawei is going to organize ICT Skill Competition globally. Winning Students will win attractive prizes that include free Huawei Certification Vouchers for Global Certification, free trainings, attractive prizes like Huawei Smartphones, Internships, visit to Huawei R&D Centre in Bengaluru and finally a fully sponsored visit to participate in the Global ICT Contest in Shenzhen (China). The National Finalists will get an opportunity to represent India at the Global Finals at China and compete with the best students from around the world and get global recognition for their knowledge, hard work and achievements. (Detail of the competition is attached)

Launch event for "Huawei ICT Skill Competition" for Punjab region will held at IKG PTU main campus, Kapurthala (Seminar hall, Ground floor, G - 3 Building) on Jan 17, 2018 (1330 hrs) onwards. Huawei top officials from China will participate in the event to share more about this competition. (Minute to Minute Programme is attached)

You are requested to depute Training and Placement Officer of your College/Institute to attend this event. Confirmation of the same may please be sent (mentioning Name, College Name & Designation) through SMS at +91-9478098147 by Jan 16, 2018 before 1500 hrs. Also students may please be informed to register online at <https://www.huaweiacad.com>.

With profound regards,

Er. Navdeepak Sandhu
Deputy Director (CR&A)

CC:

- **Dean (R&D), IKG PTU** for his kind information (through email)

"Propelling Punjab to a Prosperous Knowledge Society."



**announces launch event
on 17th January 2018
for**

Huawei ICT Skill Competition India 2017-2018

**at
I. K. Gujral Punjab Technical University,
Main Campus, Kapurthala**

***Get Certified. Get Recognized.
Get Awarded.***



Huawei ICT Skill Competition India 2017-2018

Welcome to the first Indian edition of the Huawei ICT Skills Competition 2017-2018. Students shall have the chance to win attractive prizes that includes free Huawei Certification Vouchers for Global Certification, free trainings, attractive prizes like Huawei Smartphones, Internships, visit to Huawei R&D Centre in Bengaluru and finally a fully sponsored visit to participate in the Global ICT Contest in Shenzhen (China). The National Finalists get an opportunity to represent India at the Global Finals at China and compete with the best of the best students from around the world and get global recognition for their knowledge, hard work and achievements. All finalists get an opportunity to meet with other students from around the world to share ideas and experiences as well as get an understanding of Chinese culture and cuisine.

Competition Phases	Awards
Mock Exam	Top 200 students shall receive the HCNA R&S Certification Exam voucher (worth US\$ 200) Top 50 students shall receive training for HCNA Certification preparation
HCNA R&S Certification Exam	Students who score 60% or above shall receive 20 Bonus points , to be used in the Preliminary Round and National Final Passing students will receive Huawei Certified Network Associate (HCNA) Certificate from Huawei.
Preliminary Round	Top 50 students qualify for the National Finals and receive Certificate of Appreciation
National Final	Top 8 students receive Certificate and Trophy Top 8 students get an opportunity to visit Huawei R&D Centre at Bengaluru, India and receive Huawei Smart Phones . Top 3 students qualify for the Global Finals at China
Global Final	ICT Champion Trophy



Huawei ICT Skill Competition India 2017-2018

Competition Phases	Competition Form	Place	Important Timelines	Remarks
Registration	Online Registration	https://www.huaweiacad.com	Till Jan 25 th , 2018	Huawei ICT Academy website → Huawei ICT Skills Competition India 2018 webpage
Mock Test (Optional)	Online test (60 ques., 90 min.)	https://www.huaweiacad.com	Jan 23 rd to Jan 31 st , 2018	<ol style="list-style-type: none"> Top 200 students will be awarded Huawei Global Certification Exam vouchers. Top 50 out of these 200 students will get free training from HALP
HCNA Certification – R&S (Optional)	Proctored test	Appointed Prometric Test Centres in India	Till Feb 20 th , 2018	<ol style="list-style-type: none"> Global Certification 20 Bonus points for Preliminary and National Finals
Preliminary Round	Classroom test (60 ques., 90 min.)	Appointed Test Centres in India	Feb 25 th to Mar 7 th , 2018	Top 50 students move to the National Finals
National Finals	Practical test on eNSP tool (150 min.)	Appointed Test Centres in India	Mar 15 th to Mar 25 th , 2018	<ol style="list-style-type: none"> Top 8 students get a chance to visit Huawei R&D Centre in Bengaluru, India and are awarded with Huawei Smart Phones Top 3 students qualify for the Global Finals in Huawei HQ
Global Finals	Practical Test and Interview (approx. 6 hours)	Huawei HQ	April 2018	Top 3 students travel to Huawei HQ to represent India in the Global Finals



Huawei ICT Skill Competition India 2017-2018

The Preliminary Round covers two modules: **IP and IT**

Knowledge Points in IP

1. IP Network Principles

- Ethernet and IP based data forwarding processes
- TCP/IP network protocols and data encapsulation
- VRP commands for basic navigation and configuration
- IPv4 addressing principles, address design and subnetting
- TCP/IP supporting applications such as Ping, Tracert, FTP, and Telnet

2. LAN Technologies

- LAN switching operations
- Link Aggregation application and configuration
- VLAN and GVRP and behaviour, application and configuration
- STP and RSTP switching behaviour, application and configuration

3. WAN Technologies

- Principles and application of serial technologies in wide area networks
- HDLC and PPP encapsulation principles and configuration
- Frame Relay and PPPoE implementation at the customer edge

4. Routing Technologies

- Static and dynamic routing principles
- RIP and OSPF dynamic routing protocol function and implementation in VRP

5. Network Security

- Traffic Filtering technologies and their application in the enterprise network
- User management through authentication and authorization schemes
- IPsec VPN technologies for protecting user data
- How network security is ensured by using network security technologies and firewalls

6. Network Management

- Network Management protocols and technologies

7. IPv6 Networks

- IPv6 principles and technologies
- IPv6 routing technologies
- Application services for IPv6 networks

Knowledge Points in IT

1. Storage knowledge points:

- Storage system components, storage media type and features, HDD and SSD basic knowledge, backup and disaster tolerance concept
- RAID principle and different RAID levels (0, 1, 2, 0+, 5, 6, 10) features and typical application scenario
- DAS, SAN, NAS concepts, features and architectures. SCSI, FC, iSCSI, CIFS, NFS technology.
- Technologies of backup and disaster recovery
- Background and application scenarios of big data
- Status quo and key technologies of cloud computing
- SAN storage: OceanStor V3 products function, hardware, interface and typical network
- Installation and SAN storage configuration (Storage pool, LUN, hosts, mapping etc.). Using DeviceManager
- SAN storage connection with Windows, Linux OS platform, Ultrathin installation and configuration
- Huawei storage products introduction and typical application
- Introduction to some Huawei Licensed Features

2. Cloud Computing knowledge points:

- Basic concept and values of cloud computing
- Basic knowledge and technical theory of cloud computing
- Principles, features and related applications of virtualization technologies
- Components, deployment and basic configuration of FusionCloud
- Functionality and architecture of FusionCompute
- Functionality and architecture of FusionManager
- Functionality and architecture of FusionAccess
- Deployment management and configuration of cloud computing solutions

Note: The content, mentioned against IP and IT, provides a general exam guide; the exam may contain additional related content that is not included here

ICT Skill Competition Indian edition is being organized by Cognitel Training Services, in partnership with Huawei Technologies. Cognitel is an Authorized Learning Partner with Huawei.

Please feel free to reach Cognitel at +91 124 4917993 or email at support@cognitel.com. Visit www.cognitel.com.

For information w.r.t. the ICT Skill Competition, please contact the below mentioned:

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2. Mr. Rohit Dubey (+91 99581 33663, rohit.dubey@cognitel.com)



Launch Event of “Huawei ICT Skill Competition”

(Jan 17, 2018 at IKG PTU main Campus, Kapurthala)

Programme

1330 – 1335 hrs	Welcome Address Er. Navdeepak Sandhu , Deputy Director (CR&A), IKG PTU
1335 – 1340 hrs	Huawei Corporate Video
1340 – 1355 hrs	Huawei Corporate Overview
1355 – 1410 hrs	Huawei’s education initiatives and importance of ICT global contest
1410 - 1425 hrs	Format of the ICT Competition
1425 – 1430 hrs	Presentation of ICT Competition plaque to college
1430 – 1440 hrs	Key Note Address Dr. A P Singh , Dean (R&D), IKG PTU
1440 – 1455 hrs	Interactive Session
1455 - 1500 hrs	Vote of Thanks
1500 hrs onwards	High Tea