Department of computer science is offering a free course of **Huawei Certified Network Associate (HCNA) Routing & Switching** to all undergraduate students of UET Taxila based on quota decided:

Quota:

Sr. No	Department	Seats Allocation
1	Electrical Engineering	10 Students
2	Computer Engineering	5 Students
3	Telecommunication Engineering	5 Students
4	Software Engineering	3 Students
5	Computer Science	3 Students

- Students of final year are eligible only
- Minimum cGPA Requirement is: 3.5
- Students will be given preference on first come first serve basis.

Fee Package:

- Academy charges are 6000 Rupees as training fees of HCNA (R&S) course, but in this session, it will be offered free of cost.

Contents:

Following will be the contents of Huawei HCNS (R&S) Course

IP Network Principles
1). Ethernet and IP based data forwarding processes.
2). TCP/IP network protocols and data encapsulation.
3). VRP commands for basic navigation and configuration.
4). IPv4 addressing principles, address design and subnetting.
5). TCP/IP supporting applications such as Ping, Tracert, FTP, and Telnet.
LAN Technologies
1). LAN switching operations.
2). Link Aggregation application and configuration.
3). VLAN and GVRP and behavior, application and configuration.
4). STP and RSTP switching behavior, application and configuration.
WAN Technologies
1). Principles and application of serial technologies in wide area networks.
2). HDLC and PPP encapsulation principles and configuration.
3). Frame Relay and PPoE implementation at the customer edge.
Routing Technologies
1). Static and dynamic routing principles,
2). RIP and OSPF dynamic routing protocol function and implementation in VRP
Network Security
1). Traffic Filtering technologies and their application in the enterprise network

2). User management through authentication and authorization schemes.

3). IPsec VPN technologies for protecting user data.

4). How network security is ensured by using network security technologies and firewalls.

Network Management

1). Network Management protocols and technologies.

IPv6 Networks

1). IPv6 principles and technologies.

2). IPv6 routing technologies.

3). Application services for IPv6 networks.

Course Start Date:

Course start date is **2 April 2018.**

Course Timing:

- 12 PM to 3 PM daily
- It will be a 3 weeks course

Trainer Details

Dr. Zeshan Iqbal

Assistant Professor, CS Dept.
Huawei Certified Academy Instructor (HCAI)

Mr. Farooq Ali

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Google form link to HCNA Registration

https://goo.gl/forms/odkStfEUjaBccnBw1