Ahsanullah University of Science and Technology
(Sponsored by the Dhaka Ahsania Mission and approved by the Government of the People's Republic of Bangladesh)

CCNA Exploration 4.0
Cisco Networking Academy Program (CNAP)

May 2009

Information for Admission

Please read carefully before submitting your application

141-142 Love Road, Tejgaon I/A
Dhaka-1208, Bangladesh.
Phone: 9897132, 9897311, 9897339 Ext: 110

AUST Cisco Networking Academy Program

1. The Cisco Certified Network Associate (CCNA) Program is a complete, four-semester program on the principles and practice of designing networks capable of supporting national and global organizations.

   The curriculum followed in this program is called **CCNA Exploration**. It offers in-depth theory, challenging labs and a dedicated overview of protocol operations. Through this program students will be able to prepare themselves for the Cisco Certified Network Associate (CCNA) examination.

2. Classes will be held two days a week in the Afternoon and Evening.
   Afternoon: 4:30 P.M. - 8:00 P.M.
   Evening : 5:30 P.M. - 9:00 P.M.

3. Qualification for admission into this program:
   a) H.S.C/A-Level/Diploma in Engineering or Equivalent
   b) Proficiency in English Language
   c) Knowledge of Computer fundamentals

4. Admission forms will be available at the **3rd floor of the D block (Registrar's Office) of Ahsanullah University of Science & Technology, 141-142 Love Road, Tejgaon I/A, Dhaka-1208** (Tel: 9897132,9897311, 9897339 Ext: 110) on payment of Tk. 200/-. Forms will be available From **May 10, 2009 Sunday to May 24, 2009 Sunday, during banking hours on working days (Sunday through Thursday).**

5. **Properly filled up admission forms should be submitted between May 10, 2009& May 24, 2009 during office hours on working days**. Forms will have to be submitted to the AUST Registrar's Office along with the following documents:
   a) **Two copies of passport size photographs and one copy stamp size photograph duly attested and pasted in the appropriate place** in the manner indicated in the application form.
   b) **Attested photocopies of all the academic certificates and training certificates** if any.

6. The "**List of Selected Candidates**" will be displayed on the notice board and the website (www.aust.edu) on **May 25, 2009**.

7. Candidates from the "List of Selected Candidates" will have to **get themselves admitted to the program from May 25, 2009 Monday to May 31, 2009 Sunday** during **banking hours** on working days.

8. **Admission and Term Fees are payable in Cash**.

Payable fees at the time of Admission in the 1st term:

Category	Male	Female
AUST Students/Alumnus	Tk. 6,000/-	Tk. 5,000/-
External Students/Professional	Tk. 7,000/-	Tk. 5,750/-

Detailed breakdown of fees are:

Particulars	Category	Male	Female	Remarks
Admission Fee	AUST Students/Alumnus	Tk. 2,000/-	Tk. 2,000/-	Payable only in the first term
	External Students/ Professional			
Term Fee	AUST Students/Alumnus	Tk. 4,000/-	Tk. 3,000/-	Payable in the first, second, third and fourth term.
	External Students/ Professional	Tk. 5,000/-	Tk. 3,750/-	

Total payments for four terms:

Category	Male	Female
AUST Students/Alumnus	Tk. 18,000/-	Tk. 14,000/-
External Students/Professional	Tk. 22,000/-	Tk. 17,000/-

** If a student withdraws from the 1st term by a written application at least 2 days before the start of the class he will get the refund of the term fee. There is no refund for the fees of the other terms.

9. Classes of the CNAP First Semester will be commenced from **June 03, 2009.**

10. If any damage is done to the equipments, instruments and property of AUST by a student then he will collectively or individually compensate the damage.

11. **If a student discontinues his study after the first term, he may rejoin the course at a later date when available on terms acceptable to the authorities.**

12. Grades in each term will be assigned based on performances in i) Module examinations, ii) Term final examinations, iii) Assignments, iv) Skill final examination, v) Any other item the instructor feels appropriate.

13. Marks for items mentioned in 12 will be allocated and grades will be assigned as per the following table:

Marks %	Grade	Grade Point
More than or equal to 90	A plus	4.00
85 to less than 90	A regular	3.75
80 to less than 85	B plus	3.50
75 to less than 80	B regular	3.25
70 to less than 75	C plus	3.00
65 to less than 70	C regular	2.75
60 to less than 65	D regular	2.50
Less than 60	F	0.00

14. For a student who is unable to appear in any of the Term Final Examination, his/her overall record will be judged by the authority. If the authority feels that the failure of the student was due to medical or other reasons acceptable to the authority the student may be awarded an 'I' (incomplete) grade. In this case, special self-study and examination sessions may be arranged. However, if the failure is due to negligence of the student or if he has appeared in Terms Final Examination and failed then he gets the grade 'F'. In this case he may get one chance of self study and examination session for going to the next term. If any one fails there as well, he may repeat the terms with payment.

10. During the tutorial classes the student will get an opportunity to study the hypertext based online curriculum of the program. **They are also given a password protected account in the Cisco Networking Academy Connection to view the same material**. While it is not mandatory, it is strongly recommended that students arrange an Internet connection at their home on personal basis.

11. After successful completion of the course, students will be awarded a certificate signed by the Instructor of the Academy.

12. Through the program students can learn the information needed to prepare them for the Cisco Certified Network Associate (CCNA) examination. They may take the examination at any of the Pearson Virtual University Enterprises (VUE) testing centers around the world.

The Cisco Networking Academy Curriculum

***CCNA Exploration 4.0,* a 280-hours curriculum**, is the first step in a Cisco career certification path. Cisco provides course work for a complete range of basic through advanced networking concepts – from pulling cable to such complex concepts as subnet masking rules and strategies. In a laboratory setting that closely corresponds to the real world, students get their hands on the building blocks of today's global information networks, learning by doing as they design and bring to life local-area and wide-area networks.

CCNA Exploration 4.0

- **1st Semester — Network Fundamentals**
- **2nd Semester — Routing Protocols and Concepts**
- **3rd Semester — LAN Switching and Wireless**
- **4th Semester — Accessing the WAN**

CCNA Exploration 4.0: Network Fundamentals
Upon completion of **CCNA Exploration 4.0: Network Fundamentals**, students have an understanding of networking basics including:

- ✓ Introduced to the OSI and TCP/IP models and to the process of data encapsulation
- ✓ Explore the interaction of protocols, services, and applications, with a focus on HTTP, DNS, DHCP, SMTP/POP, Telnet and FTP
- ✓ Introduces the Transport, the OSI Network, Data link and Physical layer
- ✓ Designing and cabling a network

- ✓ Configure a small network using basic Cisco IOS commands for routers and switches

CCNA Exploration 4.0: Routing Protocols and Concepts
Upon completion of **CCNA Exploration 4.0: Routing Protocols and Concepts**, students have an understanding of routers and routing including:

- ✓ Configuration of a static routes
- ✓ Overview of routing protocol concepts and the various dynamic routing protocols
- ✓ Introducing RIP (Routing Information Protocol) and RIPv2
- ✓ VLSM (Variable Length Subnet Mask) and CIDR (Classless Inter-Domain Routing) concepts
- ✓ EIGRP (Enhanced Interior Gateway Routing Protocol) and link-state routing protocol OSPF (Open Shortest Path First) concepts

CCNA Exploration 4.0: LAN Switching and Wireless
Upon completion of **CCNA Exploration 4.0: LAN Switching and Wireless**, students have an understanding of switching and fundamentals of wireless including:

- ✓ Basic Switch Concepts and Configuration
- ✓ The types of VLANs used in modern switched networks
- ✓ Exchange VLAN information across trunk links
- ✓ Implement redundant physical links in a switched LAN by creating a logical loop-free Layer 2 topology
- ✓ The various methods of inter-VLAN routing
- ✓ Basic Wireless Concepts and Configuration

CCNA Exploration 4.0: Accessing the WAN
Upon completion of CCNA **Exploration 4.0: Accessing the WAN**, students have an understanding of WAN technology basics including:

- ✓ Fundamental concept of WAN
- ✓ Focuses on serial point-to-point communications and the Point-to-Point Protocol (PPP)
- ✓ Focuses on the high-performance Frame Relay WAN protocol
- ✓ ACLs, IP Addressing Services and Network Troubleshooting

Background of Cisco Networking Academy Program

Introduction

Cisco Systems, Inc., the worldwide leader in networking for the Internet, believes the Internet is changing the way people work, live, play, and learn. In the education space, Cisco's vision is to enable the creation of e-learning environments that transform the way people learn. One example is the Cisco Networking Academy Program, a comprehensive e-learning program that provides students with the Internet technology skills essential in a global economy. The Networking Academy program delivers web-based content, online assessment, student performance tracking, hands-on labs, instructor training and support, and preparation for industry standard certifications.

History

In 1993, Cisco embarked on an initiative to design practical, cost-effective networks for schools. It quickly became clear that designing and installing the networks was not enough. Schools also needed a way to maintain the networks, and the school personnel lacked time and resources. A dedicated Cisco engineer began teaching students how to maintain the networks. Schools across the United States asked for similar programs, and in response, Cisco developed a curriculum offered to students as an elective, which became the foundation for the Networking Academy program. The program, launched in October 1997, began in 64 educational institutions in seven states: Arizona, California, Florida, Minnesota, Missouri, New York, and North Carolina.

Bangladesh

BUET started its first batch on Cisco Networking Academy program in 2001 with technical & financial assistance from UNDP. Now BUET has become a regional Academy in Bangladesh in addition to a Local Network Academy.

Currently fourteen Cisco Academies in Bangladesh

- Ahsanullah University of Science & Technology (AUST)
- American International University- Bangladesh (AIUB)
- Bangladesh University of Engineering & Technology (BUET)
- BRAC University
- Chittagong University of Engineering & Technology (CUET)
- Daffodil International University (DIU).
- Dhaka University of Engineering & Technology (DUET)
- Khulna University of Engineering & Technology (KUET)
- Northern University Bangladesh
- Premier University
- Rajshahi University of Engineering & Technology (RUET)
- Shahjalal University of Science & Technology (SUST)
- Stamford University Bangladesh
- United International University (UIU)

The Cisco Networking Academy Program Today

Cisco understands that the Internet enables learning anytime, anywhere for all students, regardless of location, socioeconomic status, gender, and race. The Networking Academy program is, therefore, committed to making this opportunity available to everyone. It partners with organizations around the world, such as the United Nations Development Program and the World Bank Group to bring this opportunity to students in underserved communities throughout the world. These include Least Developed Countries, U.S. federally designated Empowerment Zones, and Minority-Serving Institutions, which suffer from pervasive poverty and economic distress. Our goal is to enable, where possible, the education of tomorrow's workers as they help build the economies of their countries and communities.

The Networking Academy program also reaches out to students in less traditional learning institutions, including rehabilitation facilities, military bases, workforce retraining centers, and homeless shelters.

The Academy curriculum offers a variety of IT courses in addition to the flagship course on designing, maintaining, and building networks in preparation for the Cisco Certified Network Associate (CCNA) certification. Advanced networking is available through the Cisco Certified Network Professional (CCNP) curriculum, and since January, 2001, Cisco's course offerings have expanded to include curricula sponsored by our ecosystem partners. The courses are: Fundamentals of Web Design, sponsored by Adobe Systems; IT Essentials: PC Hardware and Software and IT Essentials: Network Operating Systems, sponsored by Hewlett-Packard; Fundamentals of Voice and Data Cabling, sponsored by Panduit; and Fundamentals of UNIX and Fundamentals of Java, sponsored by Sun Microsystems.

Innovative E-learning

Like Cisco Systems, the Networking Academy program prides itself on continually raising the bar in its execution. In this program, our focus is on innovative e-learning and the educational process as a whole.

Collaboration among the Educating Institutions

The Academy program has a three-tiered model for training and support. Cisco Systems trains the Cisco Academy Training Centers (CATCs), the CATCs train Regional Academies, and the Regional Academies train the Local Academy instructors who then educate the students.

Online Assessments, Personalized Learning

The Networking Academy program builds accountability into the learning process through online assessments and personalized feedback. This enables students, instructors, and program administrators to clearly understand students' strengths and areas for growth. In this focused learning environment, education can be tailored to meet student capabilities through enhanced curricula and targeted continuing education events.

Workforce Development

As part of the well-rounded curriculum, Networking Academy students can extend classroom learning to real work experience through opportunities, such as student internships and job shadowing. Qualified students can be matched to appropriate openings offered by employers in their region.

Alumni Career Center

In 2001, the Cisco Networking Academy Program launched the Alumni Program to its students and graduates who have successfully completed one or more courses of the Academy curriculum and are 18 years of age or older. Through the Alumni Connection web site, Academy alumni can participate in a global community that offers resources and tools for career development.