Kathmandu University
Information System Management Section (ISMS)
Fact sheet November, 2010

1. **Internet Connection**: Through Fibre optics link to Websurfer, Naxal (Indo-Nepal Fibre)
2. **Intranet Connection:** Nepal Research & Education Network (NREN) and its member/s
3. **Internet Bandwidth**:6 Mbps Synchronous (6 mbps uplink/ 6 mbps downlink)

Bandwidth Upgrade history (1024 kbps = 1 mbps)

		Bandwidth (kbps)	
YEAR		Downlink	Uplink
2001	November	256	128
2003	June	512	160
2004	May	1024	384
2005	May	1152	384
2006	October	1536	512
2007	May	1536	512
2008	May	1920	640
2008	October	3072	3072
2009	July	3584	3584
2010	July	4096	4096
2010	August	6144	6144

4. **Bandwidth utilization:** 24 hours
5. **Servers:**
   - Mikrotik Server (Bandwidth Manager)
   - Virtual Classroom server
   - Proxy Server
   - DNS Server
   - Staff Mail Sever
   - Student mail Server
   - Backup Server
   - Library proxy Server
   - Web Server
   - SUS (Windows patch management)
   - Centralized anti virus server
   - Centralized proxy server
6. **Media:**
   Router: 5 **Switch**: 75 Manageable switch : 2
   LAN: 10/100/1000 Mbps **UTP Cable:** Cat5e /Cat 6

   Wireless LAN Router: SpeedView, TPlink, Buffalo & SMC

   Fibre connection from KU:
   - Building to Building in its premises
   - Kathmandu University Teaching Hospital/Dhulikhel Hospital, Dhulikhel,
   - Kathmandu University School of Medical Sciences, Chaukot,
   - Kathmandu University High School, Chaukot.
7. **Topologies: Star & Extended Star**
8. **Number of computers connected to Network**: 1000
9. **Average number of internet users per day**: 1400+
10. **Intranet bandwidth**: 100Mbps
11. **Services / Supports:**
    - Web browsing
    - FTP (File Transfer Protocol)
    - Database (mysql)
    - Personal webpage (php,cgi,db)
    - KU Virtual classrooms
    - News & Events
    - Forum
    - KU webpage
    - Department Webpage
    - Email for students
    - Exam results
    - Email for staff
    - Cyber chour
    - KU Alumni
    - WiFi indoor in library
    - KUSET – E journal
    - Students online Magazine
    - Online Admission procedure
    - Video conferencing
    - Online Public Access Catalogue (OPAC)
    - Promote Open Source Software/s
    - Promote Microsoft Genuine Software/s
    - Supervising students project related on IT
    - Network support & Maintenance
    - Online support on IT related problem
    - Online tutorial on installation and Update Antivirus
    - Fibre connection to sister organization KUTH/DH, KUSMS, KUHS
    - Wireless connection to KUIC, & Redundant Connection to sister organizations
12. **Network Monitoring Software/s:**
    - Mikrotik
    - MRTG (Multi Router Traffic Grapher)
    - SNMP (Simple Network Mgmt Protocol)
    - IPTRAF
13. **Security Software/s:**
    - SNORT
    - Clamav (mail)
    - Microsoft Security Essential
14. **Operating System**
    - LINUX
      Gentoo, Redhat, Debian, Ubuntu, Puppy linux, Brazilian Firewall (BFW),
    - FreeBSD
    - Microsoft Windows Server
15. **Internet Protocol (IP)**
    - Public IP address: 32
    - Network segment:
      Public: 2 Intranet: 12
16. **Official Website**
    URL http://www.ku.edu.np, Mail : isms@ku.edu.np
17. Staff:
    1 Manager, 1
    2 Technical Staffs, 2