



# CIT Updates

Quarterly Online Newsletter of the  
FTK-Centre for Information Technology

Issue #

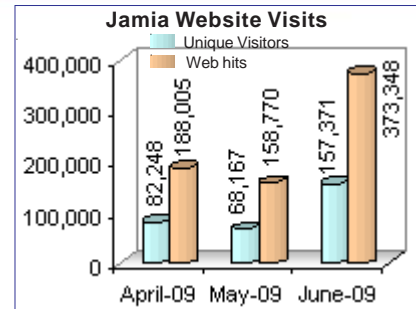
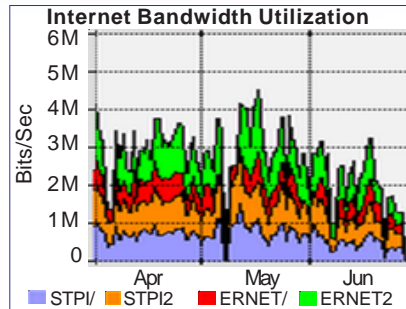
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April-June

2009

## In this Issue

- 2 E-Gov.jmi website gets popular
- 2 Online Notices Module
- 3 Learning Computer Basics in Urdu
- 3 Windows Software Update Services
- 4 Implementaion of Open Source Network Management System
- 5 MIS Update: Admission seakers in Jamia on the rise
- 6 Web Services
- 7 Network Expansion
- 7 Internet Bandwidth Utilization
- 8 Comments/ Feedback



## Editorial



As usual, the second quarter of the year in the University is relatively calm due to examinations. The preparations for admissions to various courses also start during the same period. It has been noticed that the number of admission seekers in the courses offered by Jamia has been picking up year after year. An MIS-based statistics for the academic sessions 2007-2008, 2008-2009 and 2009-2010 is presented in this report.

For the benefit of the Urdu Community, the E-Governance website of Jamia available on the Intranet has added a new feature "Learning Computer Basics in Urdu". Under the e-Governance initiative, an online Notices Module has also been developed by the Centre which will enable the offices of Jamia to upload notices and announcements directly on the website, which was earlier processed through FTK-CIT. This will save time and bring efficiency in the system.

For the convenience of the Jamia Community, Windows Software Update Services (WSUS 3.0) have been installed and made operational. Another important initiative of the Centre is the installation of an Open Source Network Management System, which has several useful features. Its details are briefly discussed in this issue.

Comments/feedback from the readers are welcome which will certainly contribute to the improvement of this newsletter."

Zahid H. Khan

**FTK-Centre for Information Technology**

Jamia Millia Islamia (A Central University)  
New Delhi-110025 (India)

## E-Gov.jmi Website gets popular

The egov.jmi website on the university Intranet is getting popular and has crossed more than 50,000 visitors by June 2009. It has a section for free software download which contains many useful software, MacAfee Antivirus being one of them. The daily updates of MacAfee Antivirus could be directly download from the link, <http://10.2.0.14/eGov/download.php> to secure PCs from viruses and malicious programs.

## Online Notices Module

Under the e-Governance initiatives of the FTK-CIT, a module has been developed by Mr. Azizullah Khan, System Analyst for online submission of Notices, Office Orders, Tenders etc. directly by the respective sections of the University. This will replace the conventional method of delivering notices for publishing the website manually. This process has been quite time consuming required considerable man hours to accomplish the job.



<b>University Resources</b>
• About University
• Jamia Website
• Jamia Mail Service
<b>CIT Services &amp; Supports</b>
• About CIT
• e Knowledge Server
• e Governance
• e-Learning
• Contents Online
• Urdu Learning Program
• Complaint Manager
• Software Download Section
• Download Proforma & Applications
• CIT Event Calander
• CIT Computing Facilities
• View Bandwidth Utilization
• Trend Micro Antivirus
• Contact Us
• Computer Basics in Urdu
• MT Open Courseware

FTK-Centre for Information Technology was established in the year 1984 with the objective of providing central computing facilities to the students and staff of the University. Ever since its inception the Centre has played pivotal role in developing and implementing IT services and applications in Jamia. To offer IT services to the end users in the University, it has established a campus-wide network of more than 2500 nodes. In addition, for easy access to applications and services, the CIT has setup a number of WiFi hotspots within the University Campus. The CIT is also responsible



50055

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In the Proforma and Application section, there are so many useful proforma like Cyberoam Account ID and Wi-Fi Account ID. To download the proforma please type the following address in your browser:  
<http://10.2.0.14/eGov/Proforma.php>

For any clarification please contact PABX Ext. no. 4253 or mail to: [hamid.cit@jmi.ac.in](mailto:hamid.cit@jmi.ac.in)

### The conventional method of Job submission had the following shortcomings:

- Time delays
- Limited availability
- Data inaccuracies
- Duplication of work
- Difficulty in handling
- Dynamic nature

### System Requirements for the Online Module:

#### Hardware

- Any computer with a Pentium IV processor or higher.
- A graphics display compatible with windows XP or later, such as EGA or VGA.
- At least 256 mega bytes of memory
- Printer (optional)
- A mouse or compatible pointing device is recommended.

#### Software:

- Any operating system such as Windows, Unix, Linux and a Macintosh computer
- Internet browser enabled

The Online Notices Module has been developed by Mr. Azizullah Khan, System Analyst, FTK-CIT.  
( Email: [aziz.cit@jmi.ac.in](mailto:aziz.cit@jmi.ac.in) )

## Learning Computer Basics in Urdu

Online Tutorials on Computer Fundamentals have been developed for the Urdu community, especially for the beginners who want to learn about the basics of computer through Urdu language. From the tutorial, you may learn about various parts of a computer and its functions, both in the text format as well as using pictures.

The tutorials are available on the e-Governance website of Jamia, which can be accessed through the University Intranet using the URL:

[http://10.2.0.14/eGov/com\\_basics/intro.htm](http://10.2.0.14/eGov/com_basics/intro.htm)

A sample page from the tutorial is displayed in the following:



### کمپیوٹر کا تعارف

کمپیوٹر لاطینی زبان کا لفظ ہے جسے Computare سے ماخوذ کیا گیا ہے اور اس کا مطلب کسی دے گئے ڈیٹا کو ٹیکلوٹ کرنا ہوتا ہے۔ کمپیوٹر کی مدد سے ہم بڑی آسانی کے ساتھ اور بہت تھوڑے سے لمحات میں ہر وہ کام کر سکتے ہیں جس کے لیے ہمیں بہت مسامی وقت درکار ہوتا ہے کمپیوٹر دور در دور کا ایک مفید ترین اور ہمہ گیر اہمیت کا حامل آلہ ہے۔ اس کی وجہ سے صرف ترقی یافتہ ملکوں کے لوگوں کی بلکہ ترقی پذیر ملکوں کے بیشتر افرادی معلوماتی ضروریات میں بہت بڑا تغیر آیا ہے۔ کمپیوٹرنے بین الاقوامی تجارت، روزگار کی نوعیت، صنعتی پیداوار، گھریلو زندگی، تفریح کے ذرائع، فضائی تحقیق و تجسس سمیت سے متعلق احتیاطاً تعلیم، ہوا اسلامی نظام اور سائنسی تحقیق پر گہرے نقوش مرتب کیے ہیں۔ ٹیکنالوجی کی ترقی کے ہمیشہ اچھے اور برے دونوں قسم کے اثرات مرتب ہوتے ہیں۔ کمپیوٹر بھی اس سے مستثنیٰ نہیں ہے۔ ہم نے بھی اس کو اچھے اور برے دونوں ہی قسم کے مقاصد کے لیے استعمال کیا ہے۔ کمپیوٹر کی طاقت بڑھنے کے ساتھ ساتھ اس کا برا استعمال بھی بڑھ سکتا ہے۔ اصل میں کمپیوٹر سے فائدہ حاصل کرنے کا انحصار اس کے استعمال کرنے والے پر ہوتا ہے۔



ان پٹ / آؤٹ پٹ ڈیوائسز

Contributed by

Mr. Mohammad Hamid, Technical Assistant, FTK-CIT.  
(Email: hamid.cit@jmi.ac.in)

## Windows Software Update Services (WSUS 3.0)

The Windows Software Update Services (WSUS 3.0) was installed at made functional. The WSUS enables central deployment of the latest Microsoft product updates to Windows, MS-Office and other Microsoft's products. It provides an economical way for keeping the machines up to date as it fetches all the required software updates from Microsoft servers and passes on to the local client machines that need them. The machines with the latest software updates and patches installed on them are less vulnerable to malicious activities. The installation instructions can be downloaded from the <http://egov.jmi/eGov/>.

Name	IP Address
mislal176	10.61.0.176
mislal172	10.61.0.172
abc	10.2.0.223
system-2	10.45.0.75
jmi	10.61.0.143
cit-office	10.61.0.214
mis-lab-khalid	10.2.0.186
test	10.61.0.200
jmi-3b5a468af30	10.61.0.141
skn-dcs-4260	10.2.0.219
citpdc.cit.jmi	10.2.0.12
system-1	10.45.0.124
pc	10.20.0.213
jmi-f8c4575ac87	10.61.0.184
ftk-cit-jmi	10.61.0.142
skn-dcs-4260	

**Status**

- Updates with errors: 0
- Updates needed: 0
- Updates installed/not applicable: 1374
- Updates with no status: 0

**Additional Details**

Computer make: Hewlett-Packard  
Computer model: HP d330 uT(DM215P)  
Processor: x86  
BIOS version: 786B2 v2.18 786B2 v2.18

The Windows Software Update Services (WSUS 3.0) have been implemented by  
Dr. S.K. Naqvi, Sr. System Analyst, FTK-CIT.  
(Email: kazim.cit@jmi.ac.in)



# Open Source Network Management System

To monitor the Jamia network continuously for disruptions and other network events, an Open Source Software – OpenNMS was installed and made functional. OpenNMS is the first enterprise-grade network management platform developed under the open-source model. Currently, OpenNMS focuses on three main areas:

- Service Polling - Determining service availability and reporting on same.
- Data Collection - Collecting, storing and reporting on network information as well as generating thresholds.
- Event and Notification Management - Receiving events, both internal and external, and using those events to feed a robust notification system, including escalation.

**openNMS®**

Node List Search OutagesPath Outages Dashboard Events Alarms Notifications Asso

Home

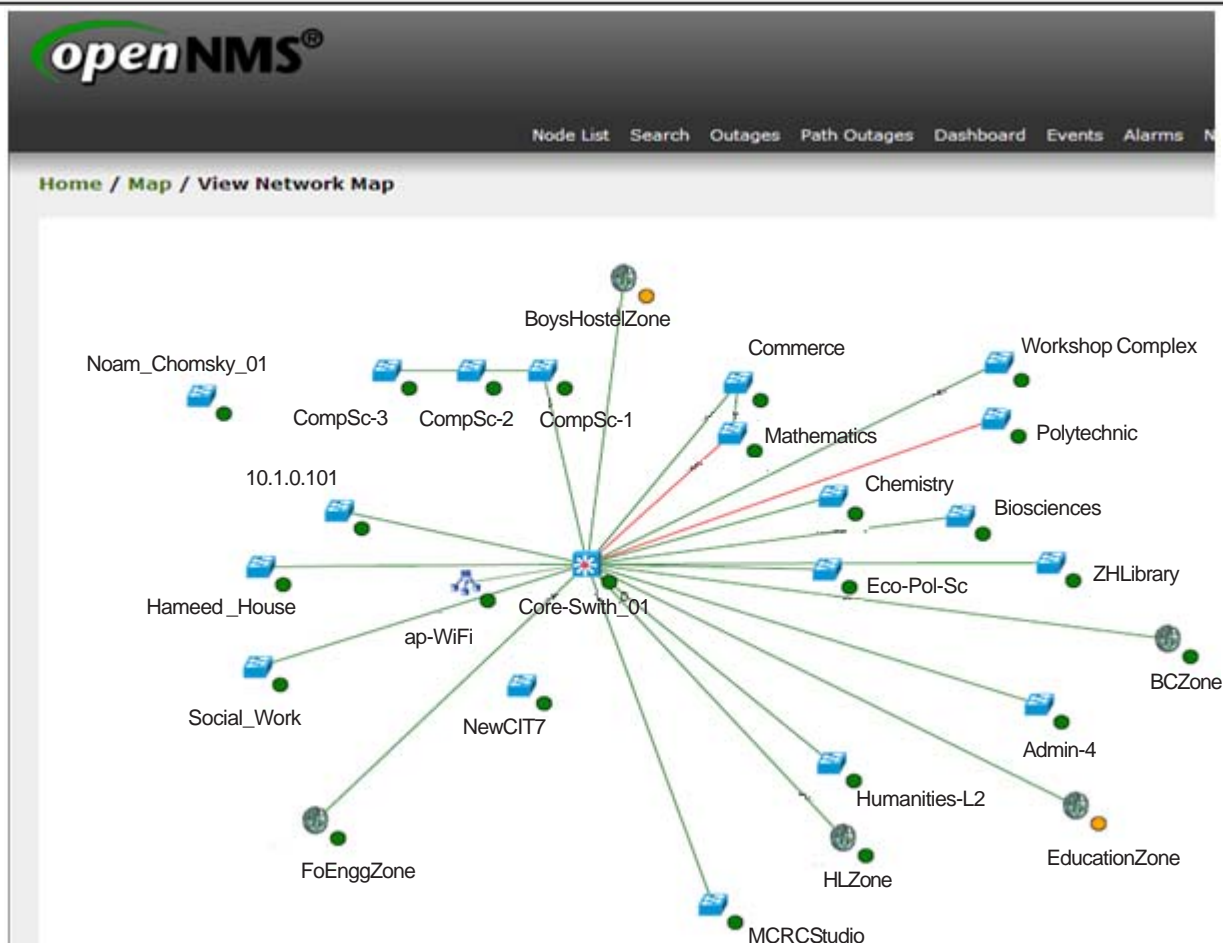
**Nodes with Outages**

- BRA Hostel3 (9 minutes)
- AMK Hostel1 (9 minutes)
- AMK Hostel2 (9 minutes)
- 10.1.0.83 (9 minutes)
- Pink Hostel (9 minutes)
- BRA Hostel1 (9 minutes)
- 10.1.0.86 (9 minutes)
- SRK Hostel -1(9 minutes)
- SRK Hostel-2 (9 minutes)
- Kellat Hostel-1 (9 minutes)
- Kellat Hostel2 (9 minutes)
- New Boys Hostel (9 minutes)

[3 more ...](#)

**Available over the Past 24 Hours**

Categories	Outages	Availability
Network Interfaces	14 of 355	95.214%
Web Servers	15 of 282	93.621%
Email Servers	0 of 0	100.000%
DNS and DHCP Servers	0 of 3	100.000%
Database Servers	0 of 2	100.000%
JMX Servers	0 of 0	100.000%
Other Servers	0 of 2	50.254%
<b>Total</b>	<b>Outages</b>	<b>Availability</b>
Overall Service Availability	29 of 644	94.414%



The Open NMS has been implemented by Dr. S. K. Naqvi, Senior System Analyst , FTK-CIT.  
 ( Email: kazim.cit@jmi.ac.in )



### MIS Update: Admission seekers in Jamia on the rise

As per the MIS entry of admission forms in various postgraduate, undergraduate, diploma and certificate courses in the Faculties, Centres and Schools of Jamia for the session 2009-2010, there were 1,26,199 applicants. This shows an increase of 22% in the number of applicants from 2008-2009 and 33% from 2007-2008. Their break-up for 2007, 2008 and 2009 are given in the following:

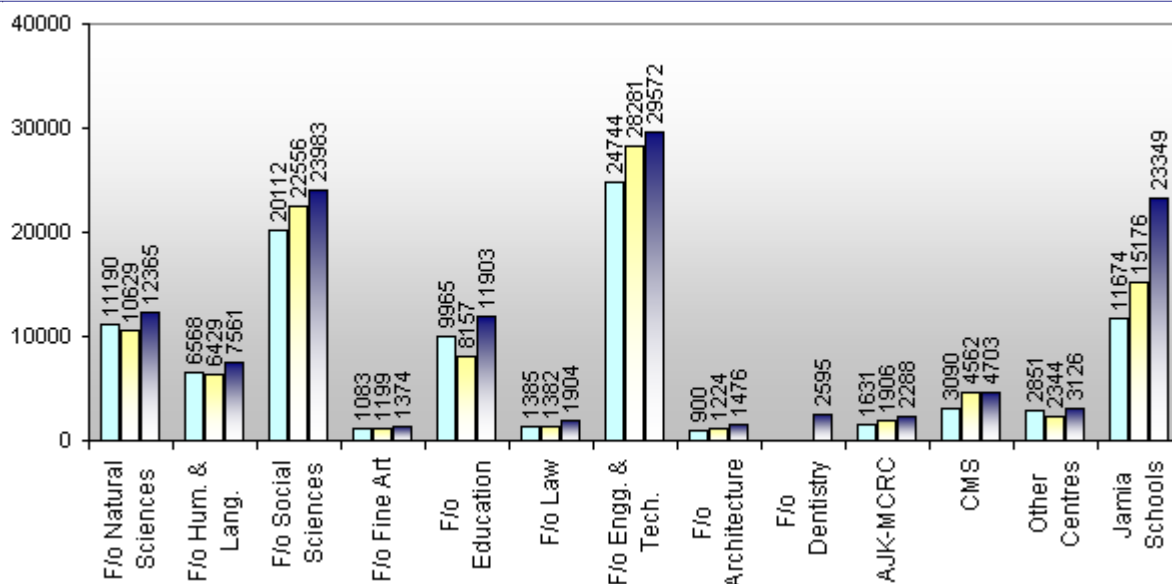
[A] Faculties	Number of Admission Forms received		
	2007-2008	2008-2009	2009-2010
Faculty of Engineering & Technology	24,744	28,281	29,572
Faculty of Social Sciences	20,112	22,556	23,983
Faculty of Natural Sciences	11,190	10,629	12,365
Faculty of Education	9,965	8,157	11,903
Faculty of Humanities & Languages	6,568	6,429	7,561
Faculty of Dentistry	-	-	2,595
Faculty of Law	1,385	1,382	1,904
Faculty of Architecture	900	1,224	1,476
Faculty of Fine Arts	1,083	1,199	1,374
<b>Sub - Total [A]</b>	<b>75,947</b>	<b>79,857</b>	<b>92,733</b>

[B] Centres	Number of Admission Forms received		
	2007-2008	2008-2009	2009-2010
Centre for Management Studies	3,090	4,562	4,703
AJK-Mass Communication Research Centre	1,631	1,906	2,288
Centre for Spanish & Latin American Studies	801	952	1,523
Centre for Physiotherapy & Rehabilitation	1,560	711	645
Centre for Peace & Conflict Resolution	102	92	234
Centre for Dalit & Minorities Studies	179	143	180
Academy of Third World Studies	68	113	131
Centre for Culture, Media & Governance	-	125	127
Centre for Comparative Religions & Civilization	99	128	119
Centre for Jawaharlal Nehru Studies	42	23	90
Centre for West Asian Studies	-	57	77
<b>Sub - Total [B]</b>	<b>7,572</b>	<b>8,812</b>	<b>10,117</b>

[C] Schools	Number of Admission Forms received		
	2007-2008	2008-2009	2009-2010
Jamia Schools	11,674	15,176	23,349
<b>Total [A+B+C]</b>	<b>95,193</b>	<b>1,03,845</b>	<b>1,26,199</b>



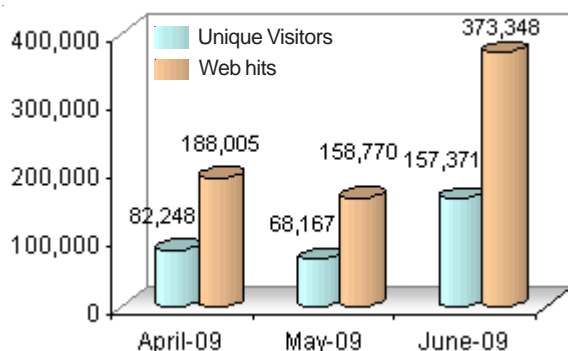
A graphical representation of summary of Admission Forms in the MIS during 2007-2008, 2008-2009 and 2009-2010.



## Web Services

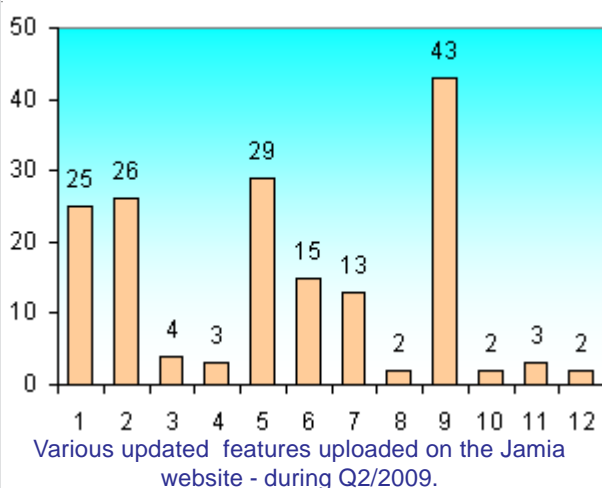
### Website Visits

In the second quarter of 2009, there were 3,07,786 unique visitors to the Jamia website and the total number of web hits was 7,20,123.



During the same period, a number of features were uploaded on the website, whose details are given in the following:

No.	Features updated	Updated Docs.
1	Notices and Office Orders	25
2	Tender Notices	26
3	Events and Conferences	4
4	Outreach programmes	3
5	Admission-related Documents	29
6	CVs of Faculty Members	15
7	Job Vacancies in Jamia	13
8	Examination Results	2
9	Abstracts of Ph.D. Theses	43
10	Notification of Ordinances (Amendments in Ordinance 32 dated 24.4.2009 and Ordinance 4 dated 29.4.2009)	2
11	Minutes of A.C. Meetings (dated 23.3.2009, 26.2.2009 and 6.12.2008)	3
12	Minutes of E.C. Meetings (dated 12.1.2009 & 10.2.2009)	2



### Admission-related Documents

During the second quarter of 2009, Entrance Test Syllabi of courses from thirty three departments, Prospectus of various Faculties, Centres and Schools alongwith their Application Forms were posted on the University website. Also, a Foreign Students Guide and Application Forms for foreign students, together with the list of foreign students were uploaded. In addition to this, six admission-related notices were posted. Apart from this the details of admission entrance Centre and details of Written Test of F/o Engg. & Technology and MCRC were also uploaded. Results of Admission Entrance of various faculties/centres were also posted on the website. The details available till 30 June 2009 are given below:

Faculties/Centres	Results posted
Social Sciences	5
Natural Sciences	8
Education	1
Law	2
Architecture & Ekistics	1
CCMG	2
MCRC	2
Schools	8
<b>Total</b>	<b>29</b>

### Abstracts of Ph.D. Theses

Fourty three new Abstracts of Ph.D. Theses received from the Office of Controller of Examinations were uploaded on the website. The department-wise break-up of the Abstracts is given in the following:

S.No.	Departments/Centre	Abstracts
1	Arabic	1
2	Applied Sciences & Humanities	2
3	Biosciences	8
4	Computer Science	2
5	Computer Engg.	1
6	Commerce	3
7	Civil Engg.	2
8	Chemistry	1
9	Centre for Interdisciplinary Research in Basic Sciences	1
10	Education	5
11	Electrical Engg.	1
12	Geography	2
13	History	4
14	Hindi	1
15	Mathematics	1
16	Mechanical Engg.	3
17	Physics	1
18	Political Science	1
19	Psychology	1
20	Sociology	1
21	Social Work	1
	<b>Total</b>	<b>43</b>

### UGC NET

Some 272 pages of information related to the list of candidates registered, rejected forms, list of centres and instructions for admit cards for UGC NET of June 2009 were posted on the website.



### Network Expansion

New Network connections were setup in the following buildings/departments of the University:

S.No.	Name of the Building/ Department	No. of Nodes
1.	New building of Faculty of Law, Centre for Management Studies and Centre for West Asian Studies.	72
2.	Child Guidance Centre Building	24
3.	New Building of Jamia Sr. Secondary School	24
4.	K. A. Hameed House	24
5.	Center for Theoretical Physics	24
6.	Electrical Engineering	8
	<b>Total</b>	<b>176</b>

Additional network nodes were also provided at the following locations:

S.No.	Name of the Building/ Department	No. of Nodes
1.	AJK-MCRC	66
2.	Computer Lab, IASE	24
3.	Department of Social Work	4
4.	Department of Chemistry	4
	<b>Total</b>	<b>98</b>

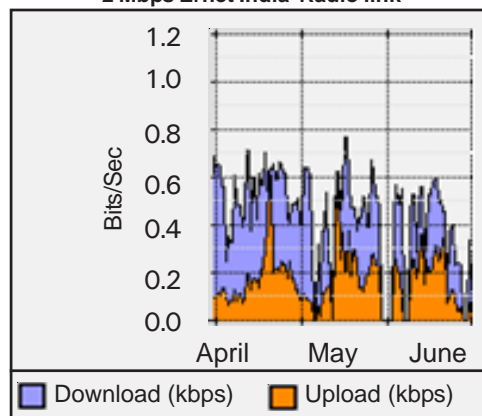
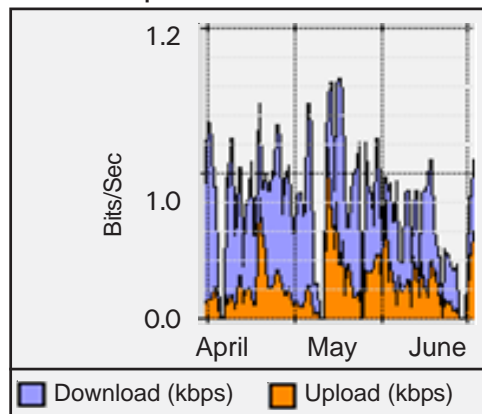
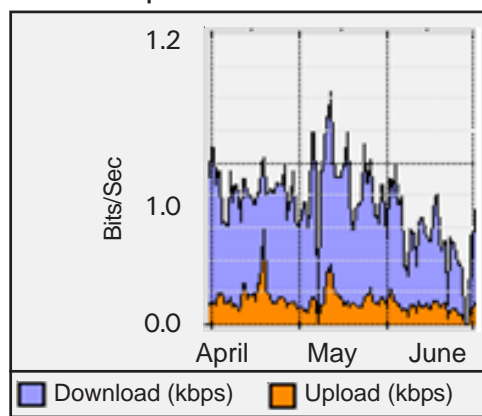
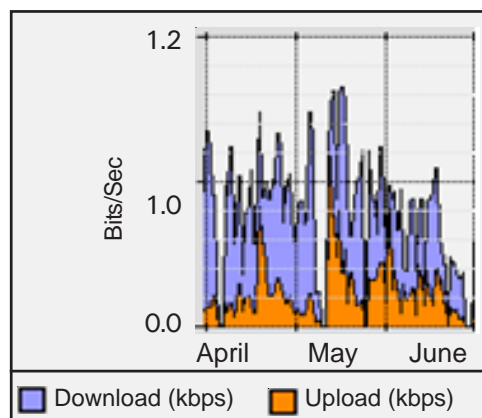
### Connectivity Restoration/Alteration

The following restoration/alteration operations were performed on the network:

- The Department of Social Work was provided connectivity through OFC. Earlier the connectivity was only through UTP cables.
- The connectivity in the newly furnished Office of the Media coordinator and School Branch were restored
- The OFC connectivity between the Centre for Interdisciplinary Research in Basic Sciences and the CIT switch was made direct eliminating a patch in OFC cables at Department of Physics.
- The connectivity at the following places which got damaged due to constructing digging work by the building & Construction Department were restored:
  - Jamia Nursery School
  - Jamia Middle School
  - Department of Fine Arts
  - Department of Social Work

### Internet Bandwidth Utilization

The following graphs show Quarterly Average Download Data Transfer. In the graphs, the 2+2 Mbps radiolink is from STPI Noida, and the 2 Mbps leased line & 2 Mbps radiolink are from ERNET India.





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