



A quarterly online
News letter
 of the FTK-Centre for Information Technology



CIT Updates

Issue # 1
January - March 2008

FTK-Centre for Information Technology

Jamia Millia Islamia
Jamia Nagar, New Delhi-110025

website: <http://jmi.nic.in>

In this Issue

- 1 Message from the Vice-Chancellor
- 2 Editorial
- 3 Workshop on "Multi-media in Education"
- 8 Extension Lectures
- 11 MIS Update
- 12 Web Developments
- 15 Internet Feeds
- 20 Network Expansion and Maintenance
- 21 Comments/Feedback
- 22 The CIT Team



Message from the Vice-Chancellor

JAMIA MILLIA ISLAMIA

(A Central University by an Act of Parliament)

Professor Mushirul Hasan

Ph. D. (Cantab)

Vice - Chancellor

Maulana Mohamed Ali Jauhar Marg, New Delhi-110025
 Email: mushirulhasan@yahoo.com - vc@jmi.ac.in

Tel.: 26984650, 26985180 Fax: 00-91-11-26981232
 Gram: JAMIA website: <http://www.jmi.nic.in>



Vice-Chancellors:

- Mohamed Ali
1920-23
- Abdul Majeed Khwaja
1923-25
- Zakir Husain
1926-48
- Moahmmad Mujeeb
1948-73
- Masud Husain Khan
1973-78
- A. J. Kidwai
1978-83
- Ali Ashraf
1983-89
- Syed Zahoor Qasim
1989-91
- Bashiruddin Ahmed
1992-96
- M. A. Zaki
1997-2000
- Syed Shahid Mahdi
2000-04

Message

I am happy that the FTK-Centre for Information Technology is bringing out its quarterly online newsletter, the 'CIT Updates.' The Centre has witnessed a fast growth in the last few years with the state-of-the art IT infrastructure. The e-mail and round-the-clock Internet services rendered by the CIT are being availed by the entire Jamia community. Its impact is now visible throughout the University – right from the hostels to the offices; from the academic departments to the libraries in the campus. The functioning of the University is getting automated year-after-year in a planned and phased manner through the extension and implementation of MIS. All this is being achieved by a dedicated team in FTK-CIT working in different IT streams. It is a good initiative to have a documentation of the work carried out by different groups of the Centre in the form of this online newsletter and thus to share the information with the students, faculty and the staff of the University.

Mushirul Hasan
 Mushirul Hasan



Editorial

During the last six years, the FTK-Centre for Information Technology (CIT) has grown exponentially and its activities have increased manifold. This is reflected in the ever-increasing usage of IT services across the University. The centre has been instrumental in providing efficient Internet, E-mail, Web and MIS services to the entire Jamia community. It has also been imparting computer training to the office staff, faculty members and students in the university to enable them to make better use of IT in management and teaching & learning. Keeping in mind the growing importance of knowledge management, the centre has created a knowledge repository through a "KnowledgeGate" server (<http://knowledgegate.jmi>) where lectures, teaching notes, reference material etc. can be stored and shared in various digital forms. The contents of the KnowledgeGate server are accessible to the entire university community through the Intranet. For promoting IT amongst the University students, faculty members and staff, the centre has also been organizing IT Expositions, Workshops and Extension Lectures.

Behind all these IT services is a small dedicated team of professionals aligned in various work streams. It has long been felt that the contributions of all the work streams in CIT should be highlighted and shared with everyone in the community. To keep everyone abreast with the latest developments in the Centre, we are bringing out this online newsletter on a quarterly basis. The first issue of the newsletter covers the activities carried out by CIT and its various work streams during the first quarter of 2008.

We welcome your comments and feedback which will enable us to further improve various IT services offered by the Centre.



Zahid Husain Khan



Workshop on "Multimedia in Education"

by

Aziz Sharafy (Washburn University, USA)

(15th January 2008)

A half-day Workshop on "Multimedia In Education" was organized at FTK Centre for Information Technology in the afternoon of 15th January 2008. It was conducted by Mr. Azyz Sharafy, Associate Professor, Washburn University, USA.

Inaugurating the workshop, Prof. Iftekhar Ahmad, Director, MCRC appreciated the efforts of the CIT in organizing such a programme which he considered as



Mr. Azyz Sharafy (Washburn University, USA)



L to R:

Prof. Zahid H. Khan (FTK-CIT),

Prof. Iftekhar Ahmad (MCRC),

Mr. Azyz Sharafy (Washburn University, USA)

the need of the hour. He congratulated the faculty and technical staff of the Centre for enhancing IT skills among the faculty members of Jamia and introducing them to the use of modern technology in education. Mr. Azyz Sharafy gave a wonderful and technically sound hands-on training on creation of animation using Adobe Flash software. Forty-nine students, together with the technical staff and faculty members attended the workshop. The participants were largely from the faculty of Fine Arts and also from MCRC and FTK-CIT.



Participants in the Workshop on Multimedia in Education

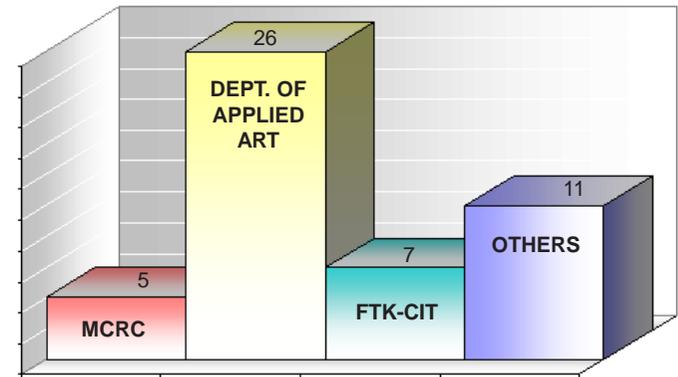
To better inculcate the animation concepts in the participants, they were asked to create an animation on themes of their choice. The response of the participants was overwhelming and their excitement of creating good animation could be easily felt. They appreciated Mr. Sharafy who enabled them to develop professional quality animation in such a short time, which they could not learn earlier even after weeks of lectures. They desired that another workshop of more duration be

organised by CIT. Prof. Z. H. Khan informed the participants that he had already requested Mr. Azyz Sharafy to explore the possibility of spending 2-3 weeks at Jamia Millia Islamia during the ensuing summer/ winter for conducting a comprehensive workshop on Multimedia.



Mr. Azyz Sharafy conducting the Workshop

A bar chart showing the department-wise breakup of participants in the workshop



Students from the Faculty of Fine Arts attending the Workshop

Faculty members and students in the Workshop on "Multimedia in Education"





Extension Lectures

Lecture -cum-Demonstration on

“Multimedia in Education”

by

Azyz Sharafy, (Washburn University, USA)

(15th January 2008)

A lecture and demonstration on “Multimedia In Education” was organized at FTK-Centre for Information Technology in the forenoon of 15th January 2008. The lecture was delivered by Mr. Azyz Sharafy, Associate Professor, Washburn University, USA. Prof. Obaid Siddiqui from AJK-MCRC was the Chief Guest. Prof. Z. H. Khan, Hony. Director, FTK-CIT welcomed the participants and introduced the audience about the recent IT facilities created at the center.



On the dias (L to R): Prof. Zahid H. Khan (FTK-CIT), Prof. Obaid Siddiqui (MCRC), Azyz Sharafy (Washburn University, USA)

Mr. Sharafy delivered a wonderful lecture on the recent advancements in the field of Multimedia and showed some fascinating animation work using Adobe Flash. He emphasized the need of computer knowledge and its applications in various disciplines. Mr. Sharafy narrated his own experience of shifting from the



conventional art to computer art, graphics and animation. Emphasizing the significance of multimedia, which has brought a revolution in education, he urged the faculty members to enrich themselves with this latest technology in order to keep pace with developed world. Mr. Sharafy advised the students to learn multimedia techniques, which offers better job opportunities in the fast expanding animation industry.



Participants in the Lecture
on
“Multimedia in Education”



Faculty members
and students
attending the Lecture.

Mr. M. Azim, Convener of the Programme, proposed the vote of thanks for the distinguished guests, the speaker, faculty members and other invitees. A total of ninety-five participants including those from Delhi University attended in the programme.

*Extension Lecture
on
“Digitization of Libraries”
by*

James Harry Nye, University of Chicago, USA
(4th February 2008)

An extension lecture on “Digitization of Libraries” was organized by FTK-Centre for Information Technology on 4th Feb 2008. The lecture was delivered by Dr. Jim Harry Nye, Director, South Asia Language and Area Center, University of Chicago. The lecture was well attended by the staff of Dr. Zakir Husain Library, Seminar Libraries of Jamia, students of the Library & Information Science, and members of FTK-CIT. Dr. Gayas Makhdumi, Librarian, Dr. Zakir Husain Library presided over the program.



Dr. Jim Harry Nye

During his lecture, Dr. Nye deliberated on fundamental issues related to digitization of libraries. Narrating his extensive experience with digitization work around the world, he lamented that most libraries fail to put up their mission statement before starting the digitization work. He emphasized that policies on very basic issues such as - what is to be collected and what is “not” to be collected, accountability, institutional linkages etc. must be in place. He further observed that libraries and people involved in digitization somehow start putting more focus on technological issues rather than on the content quality. This invariable leads to problems for the end users.



L to R: Prof. Zahid H. Khan (FTK-CIT), Dr. Jim Harry Nye, (University of Chicago), Dr. P. Bilimale (American Institute of Indian Studies)

To further elaborate the importance of quality contents, Dr. Nye, cited examples of incorrect information in the famous - “Million Books Project” led by Carnegie Mellon University.



Dr. S. K. Naqvi (FTK-CIT) welcoming the speaker and the participants

In this lecture, Dr. Nye emphasized that:

- All libraries must follow the principle of “Do no harm” while carrying out digitization work.
- Books and all other academic assets in the library must be treated with respect.

- During the digitization process, all precautions must be taken for protecting all sources of knowledge such as books, microfilms, manuscripts etc. Dr. Nye further suggested the need for collaboration among libraries for facilitating open access to digital contents. He also emphasized the need for closer involvement of students from varying backgrounds in library digitization process. He argued that the students can act as a workforce to ascertain quality during digitization.

Further, Dr. Nye recommended that enticing topics, such as data mining on digital repositories in libraries may also attract students from technical backgrounds to undertake some responsibility in the library digitization process.



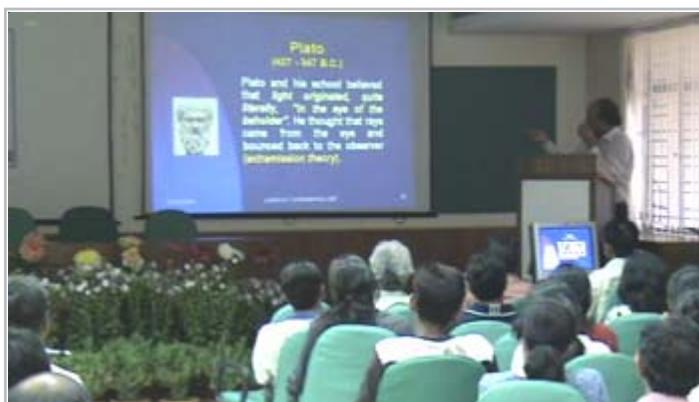
Participants attending the Extension Lecture on “Digitization of Libraries”

*Extension Lecture
on
“Understanding Light”*

By
Zahid Husain Khan
(FTK-Centre for Information Technology, JMI)
(19 March 2008)

An Extension Lecture on “Understanding Light” was delivered by Prof. Zahid H. Khan of FTK-Centre for Information Technology on 19 March 2008. The lecture was arranged for students and faculty members of the Faculty of Fine Arts, especially those belonging to the “Applied Art” discipline, who were particularly interested in knowing all about light which is of immense significance in the art visualization. Prof. Khan started the lecture with quotes about light by philosophers, poets, artists and architects. This was followed by the contributions of the Egyptian, Greek, Arab and European philosophers and scientists in exploring and unraveling the various mysteries of light, viz.,

- ◆ Light and darkness,
- ◆ Light and vision,
- ◆ The nature of light,
- ◆ The speed of light,
- ◆ Creation of the universe and the birth of light,
- ◆ Laser - the wonderful light.



A powerpoint presentation on “Understaning Light”

MIS Update

The Jamia Management Information System (MIS) and Finance & Accounts Information Systems (FAOIS) have now become an integral part of the university functioning. The facilities are being extensively used by all sections of the University. The CIT is constantly striving to keep the MIS up-to-date and make it even better by providing operational support to the ever-evolving new requirements of the University users.

In this Quarter

- ◆ The Payroll Module was modified to accommodate salary processing of MCRC employees from March 2008 onwards.
- ◆ Facility to process scholarship of students was added to the Finance Module.
- ◆ Leave Module was modified to suit the requirements of the Leave Section of the Registrar’s Office. The module was handed over to the Leave Section for the entry of Earned Leave of employees.
- ◆ A new report was developed for generating proforma for Employees’ Attendance.
- ◆ Facility for creating Employees’ ID Card was developed and handed over to the Establishment Section of the Registrar’s Office for testing and operationalization.

Work carried out by MIS Section	Quantum
New Forms	05
New Reports	08
Forms Modified	47
Reports Modified	36

MIS/FAOIS Maintenance
Work Metric

MIS/FAOIS Metric

MIS Features	Size
MIS Database Size	29 GB
Total no. of Forms	346
Total no. of Reports	668

Web Developments

Web Statistics

Number of visits to the website from 12th May 2006 to 31st March 2008	472,326
Number of visits to the website during January to March 2008	91,696
Number of new links added to the website during January to March 2008	421
Total number of pages on the Jamia Website till 31st March 2008	~11,000
Number of pages updated on the website during January to March 2008	~2,000

Web Services

The Web Management Lab of CIT has 128 kbps DVB-VSAT connectivity through the National Informatics Centre (NIC), Govt. of India.

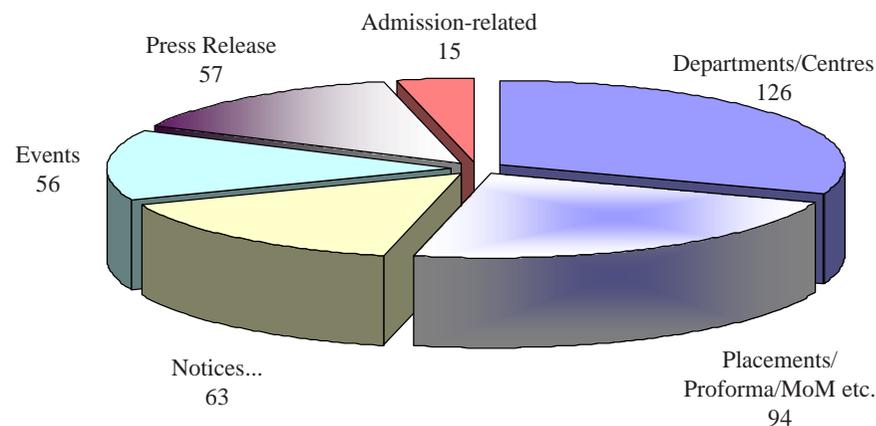
During January to March 2008, a number of features on the website were updated, which included:

- ◆ Profiles of Faculties, Departments and Centres’
- ◆ Courses of Study
- ◆ Examinations
- ◆ Abstracts of Ph.D. Theses
- ◆ Events and Conferences
- ◆ Press Release
- ◆ Outreach Programme
- ◆ Notices & Tenders
- ◆ Vacant Positions
- ◆ Placements
- ◆ Foreign Students’ Info
- ◆ Forms and Proforma
- ◆ Act & Statutes
- ◆ Academic Council : Minutes of Meetings
- ◆ Executive Council : Minutes of Meetings



DVB-VSAT Dish

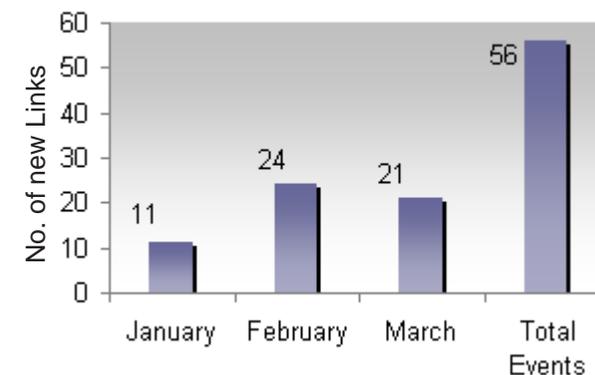
The following chart gives a statistics about the number of pages (uploaded/updated) on the Jamia website in the 1st quarter of 2008:



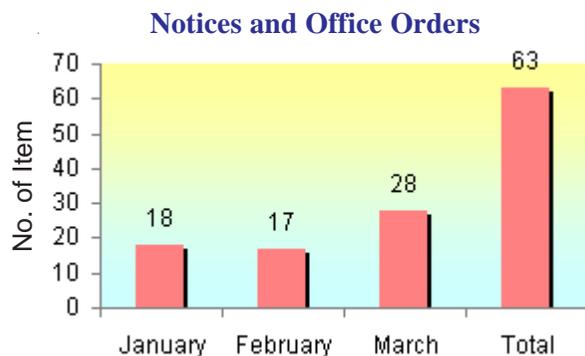
A pictorial presentation of various updated features on the Jamia website during Q1/2008.

Events and Conferences

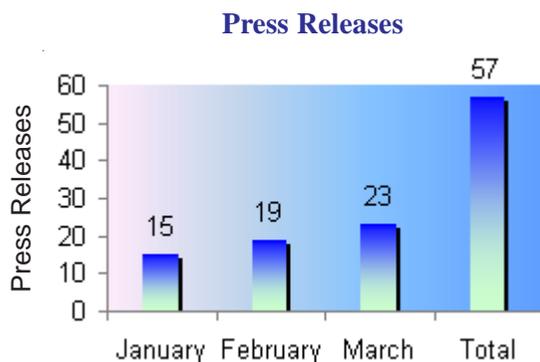
Based on requests received from various departments centres in the first quarter of 2008, fifty-six links were added to the Jamia website under the “Events and Conferences” feature.



Notices, Office Orders, Tenders, Corrigenda and Circulars etc. received from different departments/centre's/offices for display were uploaded on the Jamia Website. A monthly breakup of such information is displayed in this figure.

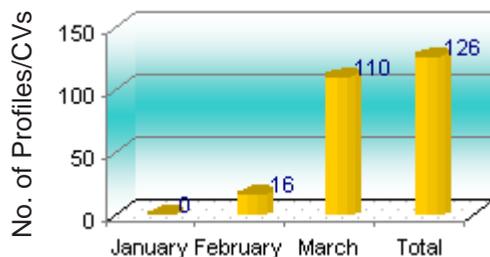


During the 1st quarter of 2008, 57 Press Releases, received from the Office of the Media Coordinator, were uploaded on the Jamia website

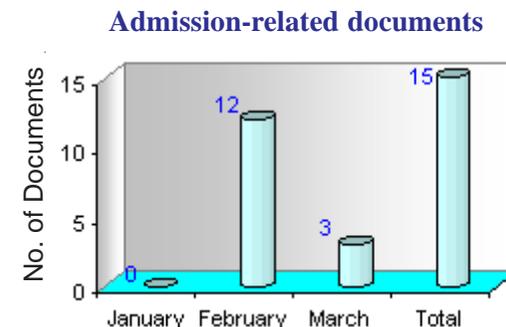


Profiles/CVs related to Departments/ Centres and Faculty Members

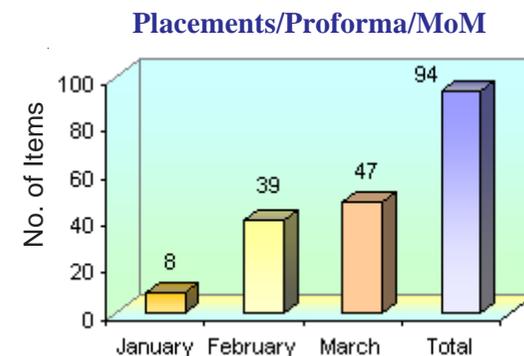
Some 126 documents related to updated CV's of faculty members and profiles of some departments and centres were uploaded on the Jamia Website.



Prospectus of Faculties and Schools for the year 2008-09, together with Admission Forms, were uploaded on the Website.



Some 94 documents containing information on Placements/Forms and Proforma/ Minutes of Meetings of Academic Council and Executive Council and Act and Statutes etc. were put on the website.



Internet Feeds

Internet browsing is amongst the most sought after IT service in the University. This service being provided by CIT is extensively used by faculty members, research scholars and students of the University. The administrative staff of the University too uses the Internet facility to perform their routine work.

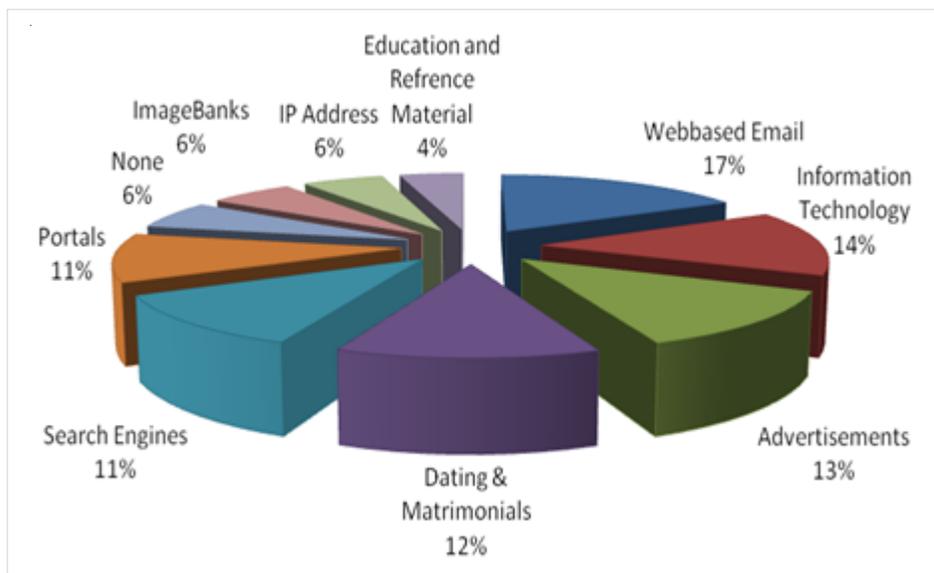
In this Quarter

- ◆ The Internet bandwidth in Jamia Millia Islamia was increased from 4-Mbps to 6-Mbps.
- ◆ <http://mail.google.com> emerged as the most frequently used site in Jamia with 3.5 million hits during January-March 2008.
- ◆ Web-based mailing systems emerged as the most popular category with more than 4.9 million hits.
- ◆ Education and Reference Material sites ranked at the 10th place amongst the most visited sites in Jamia.

Web Surfing at Jamia

The following three graphs depict the Internet browsing in Jamia during the first quarter of 2008.

The first graph shows most popular website categories that have been surfed by the users.

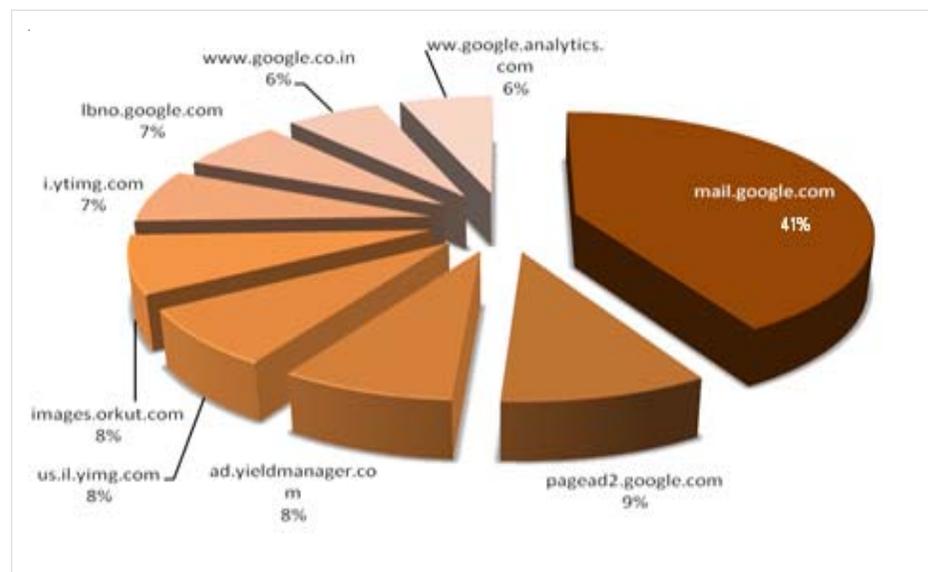


Top 10 Categories -Request wise

Web Category	No of Requests
Web based Email	4931723
Information Technology	4125198
Advertisements	3597010
Dating & Matrimonial	3475034
Search Engines	3284681
Portals	3045843
None (Unclassified sites)	1736907
Image Banks	1646853
IP Address	1601639
Educational Material	1261386

Quarterly Report of Internet Surfing in Jamia during January – March 2008

The most popular websites that have been browsed during Jan.-March 2008.

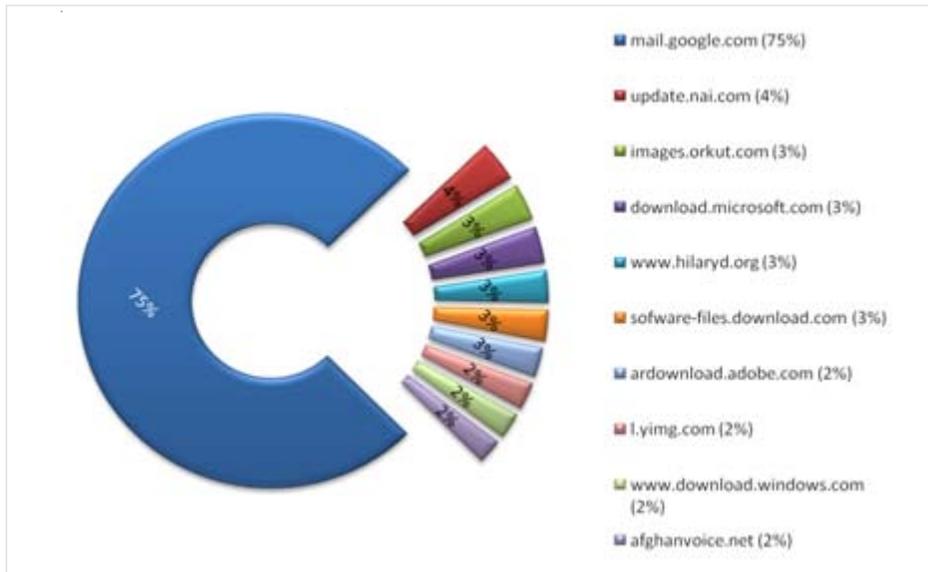


Top 10 Websites- Visit wise

Website	No. of Requests
mail.google.com	3527979
pagead2.google.com	803339
ad.yieldmanager.com	675243
us.il.yimg.com	650239
images.orkut.com	650027
i.ytimg.com	599044
lbno.google.com	562671
www.google.co.in	509760
ww.google.analytics.com	500862

Quarterly Report of Internet Surfing in Jamia during January – March 2008

Top ten preferred data download sites during the first quarter of 2008.



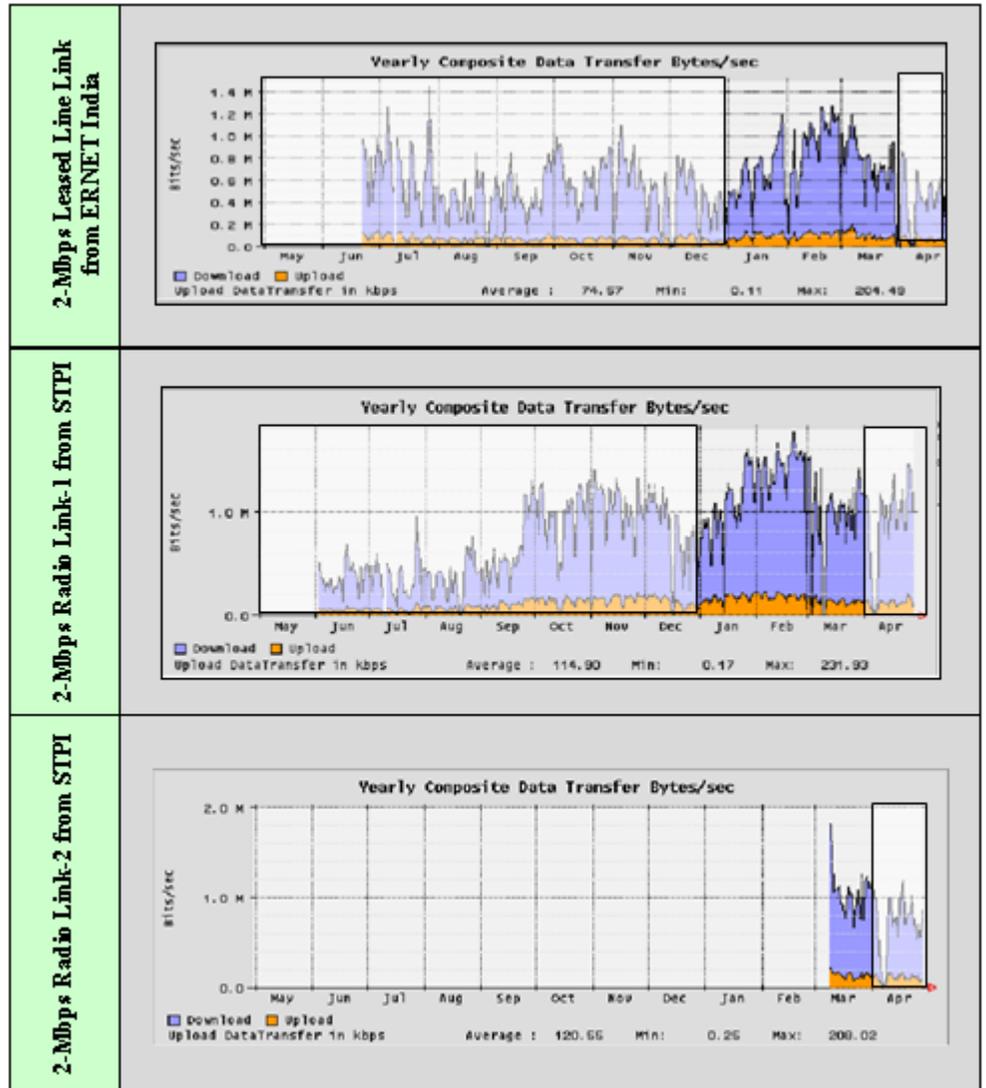
Top 10 Websites- Data Transfer wise

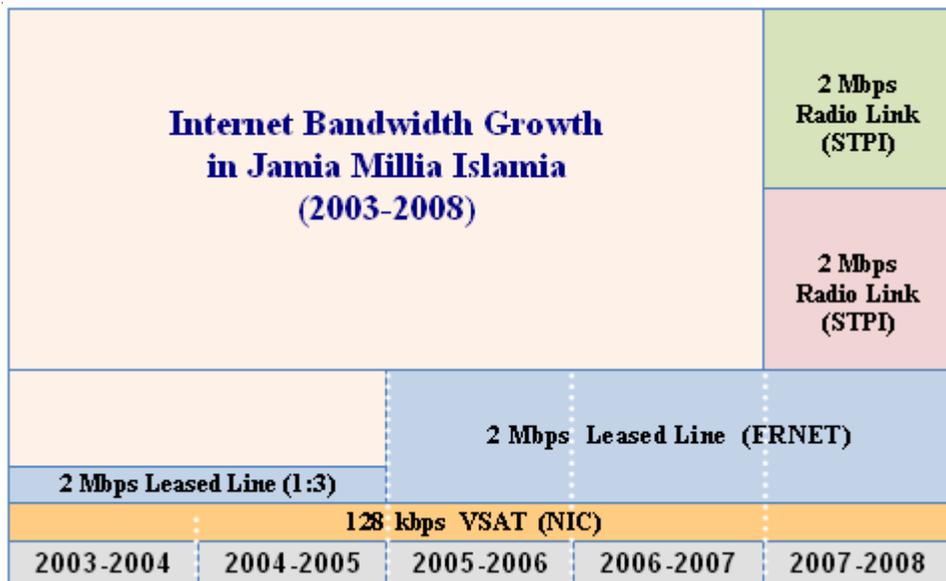
Websites	Data Transfer in Kilobytes
mail.google.com	176017740
update.nai.com	8275573
images.orkut.com	7436873
download.microsoft.com	7352709
www.hilaryd.org	6467578
software-files.download.com	6282912
ardownload.adobe.com	6021794
l.yimg.com	5653146
www.download.windows.com	5360352
afghanvoice.net	5093170

Quarterly Report of Internet Surfing in Jamia during January – March 2008

Internet Bandwidth Utilization

Upto February 2008, Jamia had 4 Mbps bandwidth - 2 Mbps through radiolink from CDAC, Noida and the other 2 Mbps bandwidth through leased line from ERNET, India. In March 2008, 2 Mbps additional bandwidth from CDAC, Noida was added. The utilization of the bandwidth may be seen from the following graphs:





Network Expansion and Maintenance

During the period January-March 2008, following extension and maintenance works related to campus network were carried out :

- ◆ Construction of RF Tower at Noam Chomsky Complex for Wireless connectivity.
- ◆ Installation of Access Points at the following locations for providing WiFi Connectivity
 1. Department of Biosciences,
 2. Sociology and Psychology departments,
 3. History and Geography departments,
 4. Faculty of Humanities,
 5. New CIT Building,
 6. BAK Girls Hostel
- ◆ Leased Line shifted from the old CIT building to the new CIT building.



WiFi Tower at FTK-CIT

- ◆ Fibre cable was laid down from the FTK-CIT building to the History & Geography Building. Cabling work was also carried out inside the building.
- ◆ Splicing of fibre between
 - (i) New SRK Hostel and BRA Hostel
 - (ii) Administration and Noam Chomsky Complex
- ◆ Fibre Termination in Building and Construction department was carried out due to damage caused to optical fibre.
- ◆ Replacement of faulty switches and modules and new installations:
 - i MTRJ module in core switch at old CIT building.
 - ii Layer 3 switch installed at the Faculty of Humanities & Languages.
 - iii Fibre module in 2924 MXL switch installed at the Administration Block.
 - iv Fibre Module in 2924 MXL switch installed at the Procter’s Office.

Comments/Feedback

For comments and feedback, please write to:

Prof. Zahid H. Khan
Hony. Director
 FTK-Centre for Information Technology
 Jamia Millia Islamia
 New Delhi-110025
 or
 email to:
dir.cit@jmi.ac.in

For online Feedback, please click here

Prof. Zahid H Khan
Editor

Azizullah Khan
Associate Editor

Contributors:

Dr. S. Kazim Naqvi
Sr. System Analyst

Dr. S.Nasir A. Rizvi
Programmer

Azizullah Khan
System Analyst

Muzaffar Azim
System Analyst

Dr. Jamal A. Khan
Network Engineer

M. Wasiful Hasan
Database Administrator

M. Nurul Islam
Computer Operator

Junaid Akhtar
Technical Assistant

Mohammad Hamid
Technical Assistant

Mirza Rahil Beg
Technical Assistant

Nasir Ali Khan
Data Entry Operator

Syed Khalid Ali
Data Entry Operator

Photography:

Nasir Ali Khan
 Mohd. Shahabuddin



The CIT Team

Prof. Zahid Husain Khan - Hony. Director

The Director is in charge of all activities of the FTK Centre for Information Technology, Jamia Millia Islamia. He is responsible for guiding the University on all IT-related issues and implementing its policies and guidelines.

E-mail: dir.cit@jmi.ac.in; zhkhan.ph@jmi.ac.in

Dr. S.Kazim Naqvi - Sr. System Analyst

He is responsible for various technical and administrative works related to the Centre including planning, procurement of resources and services, configuring of hardware/software etc. He also supervises and undertakes development of new features in MIS and web-based Intranet facilities. In addition to this, he oversees the work related to Internet Bandwidth management and provides technical help to all his colleagues in the centre.

Email: kazim.cit@jmi.ac.in

Dr. Syed Nasir Aziz Rizvi - Programmer

He looks after the "IT Help Desk" facility which is responsible for providing support to the entire University in maintaining the PCs, peripherals, UPS systems and passive networking. Dr Rizvi also manages the activities of the Internet lab.

Email: rizvi.cit@jmi.ac.in

Azizullah Khan - System Analyst

He manages the Web Section of FTK-CIT which is responsible for the University website and e-mail services. He also supervises work related to Software Library and Audio-Video & Photo Archives He is presently working on development of online web services for the University community as well as prospective students.

Email: aziz.cit@jmi.ac.in

Muzaffar Azim - System Analyst

He coordinates all training activities at the Centre, viz. Computer Applications, MIS, e-Presentation etc. He also manages the Multimedia Lab and the KnowledgeGate server.

Email: mazim.cit@jmi.ac.in

Dr Jamal Akhtar Khan - Network Engineer

He takes care of the Campus Area Network in the University which has more than 2600 network nodes. He also supervises the IT Helpdesk engineers in network troubleshooting and extension work. He also manages the 2-Mbps LL connectivity from ERNET India.

Email: jamal.cit@jmi.ac.in

Wasiful Hasan - Database Administrator

He looks after the DBA related activities on MIS servers including data backups, restoration and performance tuning. He also undertakes MIS troubleshooting operations. Mr. Hasan also provides active support to the end users of MIS & FAOIS systems.

Email: wasif.cit@jmi.ac.in

Nurul Islam - Computer Operator

He is associated with the MIS Section and is responsible for supporting all DBA activities as well as helping out end-users in matters related to usage of MIS facilities. He also undertakes data retrieval work for adhoc reports and queries as and when required.

Email: mnislam.cit@jmi.ac.in



Junaid Akhtar - Technical Assistant

He is a member of Web Management Section. He supports and undertakes website update and development work. He also looks after the Software Library and Audio-Visual & Photo Archive of the Centre. Mr. Akhtar is also associated with the development of dynamic web pages for the University Website.

Email: junaid.cit@jmi.ac.in

Mohd. Hamid Khan - Technical Assistant

He is responsible for monitoring and recording the Internet bandwidth usage in the University. He is also associated with management of <http://knowledgegate.jmi>, <http://egov.jmi> and Cyberoam servers. Mr. Khan has interests in DTP work as well and renders his services in designing and creation of display material for CIT.

Email: hamid.cit@jmi.ac.in

Mirza Rahil Beg - Technical Assistant

He is a member of the Computer Network Team and is responsible for solving out the network-related problems in the University and does liaisoning with the company that is responsible for AMC of active equipment. He also keeps a record of all switches installed in different departments and offices of the University and manages the store.

Email: mirzarahilbeg.cit@jmi.ac.in

Nusrat Husain - Personal Assistant

He looks after the office of the FTK-CIT in addition to performing his duties as Personal Assistant, maintains all office records and stores, and carries out all purchase-related work.

Email: nusrat.cit@jmi.ac.in

Nasir Ali Khan - Data Entry Operator

is associated with the Network Section of the Centre and helps in active and passive network troubleshooting activities.

Email: nasir.cit@jmi.ac.in

Syed Khalid Ali - Data Entry Operator

He is associated with the MIS Section of the Centre and helps in carrying out miscellaneous activities such as document preparation, PC troubleshooting etc.

Email: khalid.cit@jmi.ac.in

Mohd. Shahabuddin - Lab. Attendant

He looks after the Internet and Training Labs and takes care of the Server, PCs and Peripherals and helps in installation of software on the machines.

Email: shahabuddin.cit@jmi.ac.in

Noor Alam - Peon

He does the distribution of official letters and papers in the University's departments and offices and any other official work assigned to him by the Centre.

Pyare Lal - Farrash

He does the cleaning of laboratories and the office of the Centre and any other official work assigned to him by the Centre.





FTK-Centre for Information Technology

Jamia Millia Islamia

Jamia Nagar, New Delhi-110025

Tel: 26987706, 26981717 Ext. - 4251

Fax: 26987707

E-mail: dir.cit@jmi.ac.in

Website: <http://jmi.nic.in>