

# CIT Reflections

Annual Magazine of the  
FTK-Centre for Information Technology  
Jamia Millia Islamia, New Delhi



**Issue # 1**  
**April 2007 – March 2008**



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**ACPL Systems Pvt. Ltd.**

L-18 (3rd Floor),Lajpat Nagar-2, New Delhi-110024 INDIA  
 Tele-Fax : +91-11-29810468, +91-11-29819100  
 Mobile : 98110-87246, 9810181381, 9871298985, 9871326385  
 Email : info@acpl.com  
 Website: www.acpl.com

**Gurgaon Office**

O-46, South City - 1  
 Gurgaon - 122001 Haryana  
 Ph: 91-124-4088914

<b>Patron</b>	Prof. Mushirul Hasan Vice-Chancellor Jamia Millia Islamia, New Delhi (Email: vc@jmi.ac.in)
<b>Editor</b>	Prof. Zahid Husain Khan Honorary Director FTK-Centre for Information Technology Jamia Millia Islamia, New Delhi (Email: dir.cit@jmi.ac.in; zhkhan.ph@jmi.ac.in)
<b>Co-Editor</b>	Dr. S. Kazim Naqvi Senior System Analyst FTK-Centre for Information Technology (Email: kazim.cit@jmi.ac.in)
<b>Assistant Editor</b>	Azizullah Khan System Analyst FTK-Centre for Information Technology (Email: aziz.cit@jmi.ac.in)
<b>Graphics by</b>	Mohammad Hamid FTK-CIT
<b>Photography by</b>	Nasir Ali Khan and Mohd. Shahabuddin FTK-CIT
<b>Jamia Website</b>	<a href="http://jmi.nic.in">http://jmi.nic.in</a>

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# 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

Mohammad 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

It gives me great pleasure in putting forth before you the first issue of CIT Reflections, an annual magazine of the FTK-Centre for Information Technology. This magazine is truly a reflection of state of the Information Technology in the University. Undoubtedly, during the last five years, ICT has given a tremendous boost to the academic life of the University. It has a Local Area Network comprising of more than 2600 nodes, covering all the departments and offices of the University. Internet is available on 24-hour basis throughout the University. The Jamia website, with its 11,000 pages, is a reservoir of information. Researchers in the University can now access thousands of e-journals. The University's Management Information System (MIS) is unique and it has made possible to efficiently retrieve information out of the large amount of data and to use it for rational decision-making. It is particularly pleasing to note that Jamia is now amongst the very few universities in the country to have implemented this kind of MIS facility. This has become possible due to the keen involvement of the University staff at all levels.

With this kind of ICT infrastructure available in the University, it becomes our duty to make its best use for bringing academic excellence. We need to integrate our conventional teaching abilities with the new teaching methodologies based on e-Learning and multimedia. We need to strive for making less-paper offices by adapting ICT in the management and governance of offices. All this would require the involvement of the entire Jamia community.

The CIT Reflections is aimed at attracting such inquisitive minds by bringing them closer to the technology through simple informative articles and important news on IT development in Jamia. It would also provide a platform to share views and ideas on information technology.

Mushirul Hasan

# Editorial



During the last two decades, there have been phenomenal developments in Information and Communication Technology (ICT) and though the Jamia has been a late starter, it could catch up the race in the new millennium. The Internet era in Jamia started in the late 1999 with the setting up of a VSAT facility which is still being used for uploading information on the Jamia Website hosted at the National Informatics Centre (NIC), New Delhi. In the last eight years, the Centre's activities have expanded widely with setting up of a vast campus area network, implementation of a management information system (MIS) for the entire university, and an information-rich university website. Computer training of the office staff and faculty members has been a regular activity of the centre. Under the new initiative, a KnowledgeGate server was set up in 2007 where lectures/presentations from speakers can be published. Some presentations posted on the server are readily accessible on the University intranet on 24x7 basis.

The 2007-2008 has been a very busy year for the Centre. In May 2007 the Centre moved from its old premises to a new building where state-of-the art IT laboratories and a data centre were set up entirely by the Centre's staff. The task of shifting the IT facilities to the new premises was a challenging one, which was carried out smoothly without disrupting the ongoing IT services in the University.

With such significant developments in IT at the FTK-Centre for Information Technology, there has been a long-felt need to bring out a news magazine with the aim of making the Jamia community aware of the diverse IT facilities available at the centre and also to disseminate information on its ongoing activities and the new initiatives taken by it. This first issue of the annual magazine CIT Reflections covers a variety of topics of general interest and it gives the highlights of the Centre's achievements in all these years, particularly during 2007-2008. It is being brought out in print version, which may also be visited at the Jamia's website, <http://jmi.nic.in>. It is hoped that CIT Reflections would provide a platform to share ideas from users to serve the University in a better way and also to make the best use of the Centre's existing facilities.

I am grateful to Prof. Mushirul Hasan, Vice-Chancellor who has always been very supportive towards the academic and developmental programmes of the Centre, which have resulted in this information-rich magazine. Syed Shahid Mahdi, former Vice-Chancellor has always been a great source of inspiration and guidance. His valuable suggestions for the "CIT Reflections" are thankfully acknowledged. At the last, I would like to thank all of my colleagues in FTK-CIT without whose cooperation the dream of bringing out this magazine would not have been realized. In particular, the help extended by Mr. Aziz Ullah Khan, System Analyst for improving the design of the entire magazine is greatly acknowledged.



**Zahid Husain Khan**

# About FTK-Centre for Information Technology

## Background

In the 1970s the University Grants Commission (UGC), New Delhi started a scheme to establish computer centres in universities to facilitate researchers to carry out computational work in their own institutions and also to provide computer training to office staff. Under this scheme, in November 1984 the UGC granted its approval for establishing a Computer Centre in Jamia Millia Islamia vide its letter dated November 20, 1984 for which it sanctioned a minicomputer system with a few terminals and some technical positions and support staff. The system was effectively used for the next 5-6 years till it became almost obsolete. Prof. Bashiruddin Ahmed, the then Vice-Chancellor (1992-1996) revitalized the Computer Centre and impressed upon the UGC for providing further financial and technical manpower support to the centre. As a result, the UGC in 1995 released a grant for setting up new computer labs and local area network. A network with ninety nodes became operational in 1995-1996. In the same year an e-mail facility through ERNET India was also started. This was however accessible to only a selected number of offices and departments due to small size of the network. Subsequently in 1996, the UGC sanctioned additional staff for the Computer Centre. On the initiative of the Vice-Chancellor, the admission process in Jamia was made completely transparent through computerization of admissions to all courses and setting up a Central Admission Coordination Committee for centralized processing of results in which the Computer Centre staff played a crucial role. In 1996 the Computer Centre was given the additional responsibility of teaching undergraduate and postgraduate computer courses, viz., Bachelor of Computer Applications (BCA), Postgraduate Diploma in Computer Applications (PGDCA), and Master of Software Systems (MSS).

The responsibility of running all computer courses in the University by the Computer Centre affected its own functioning and growth as the computer staff became too busy in running the courses and

conducting their examinations for which little support was available from the Examinations Office. Also, two of the three computer courses run by the Centre were self-financing for which the dependence was largely on the guest faculty. This created some problems in the delivery of the courses. Consequently, Lt. Gen. (Retd.) M.A. Zaki, Vice-Chancellor (1997-2000) constituted a committee which recommended the transfer of courses to a new department under the Faculty of Natural Sciences. After the creation of the Department of Computer Science in late 1999, the responsibility of running the above courses was given to the department. This provided the Computer Centre a better opportunity for carrying out its main activities, i.e. bringing computer awareness in the University, extending the campus-wide network, computerization of offices, and planning the infrastructure growth, keeping in view the fast pace of development in the IT world. The Vice-Chancellor further allocated sufficient funds to the Centre out of the IX Plan Grant which was utilized to set up a Seminar Room-cum-Computer Training Lab with PCs of the latest configuration.

The last two decades of the nineteenth century saw phenomenal developments in the field of Information Technology (IT). In particular, the advent of the Internet and World Wide Web (www), provided tremendous support in information sharing, teaching and research. It was realized that Internet facility for the University was a must and so was expansion of local area network. Fortunately in 1998 the All India Council for Technical Education (AICTE) started a scheme for providing VSAT connectivity to technical institutions through the National Informatics Centre (NIC), Government of India on cost sharing basis. The Vice-Chancellor approved the scheme for its implementation in Jamia and the responsibility for the IPA-VSAT facility was given to the Computer Centre, which was successfully commissioned in by the end of 1999. The system was later upgraded from 64 kbps to 128 kbps and it is being used for uploading information on the official website of Jamia which is hosted at NIC.



After Syed Shahid Mahdi took over as the Vice-Chancellor of Jamia in early 2000, he asked to prepare a blue print for complete computerization of the University and to work out the financial requirements for its implementation. The website of the University was developed at the initiative of the Vice-Chancellor and was formally launched in November 2000. Also, a workshop on “IT for All” was organized in the same month in which it was decided that all courses will have an IT component so that students do not lag behind in the use of technology which has become essential for every one. This was followed by preparing a comprehensive plan for massive expansion of the local area network and development of a management information system (MIS) for Jamia for improving the functioning of its various offices. The Vice-Chancellor also desired that the Computer Centre should have a new building suited for a modern information technology centre, which should be taken up on priority.

With this new vision about IT, it was realized that the usual computer centres, which were merely a central place for carrying out computational work in earlier days, had additional responsibilities in their basket which were very crucial for universities, viz. setting up large networks, providing Internet connectivity, managing websites, providing computer training the office staff, faculty members and university administrators etc. In view of the marked shift in the responsibilities of the Computer Centre, the Executive Council of Jamia, in its meeting held on March 22, 2002 approved the renaming of the Computer Centre as “Centre for Information Technology” which truly reflected the nature of its activities. Acknowledging the valuable contributions of the Chancellor of the University, Mr. Fakhruddin T. Khorakiwala for Jamia in general and for the Centre for Information Technology in particular, the Executive Council, in its meeting held on 25th November 2003 approved to incorporate the Chancellor’s name in the name of the Centre.

By the first quarter of 2004, the entire university and also the FTK-Centre for Information Technology (FTK-CIT) witnessed growth in all sectors. The Jamia website became Information-rich as revealed through its number of pages that increased from 900 in November 2000 to 4800 in April 2004. During the same period, the local area network expanded from 90 nodes

to 1600 nodes on which the total expenditure was Rs. 1.90 crore. This included the grant of Rs. 1.10 crore from the Ministry of Communications & Information Technology, Government of India. Management Information System (MIS) was introduced in the University for the first time and a number of MIS modules became operational. More than two dozen of Computer Labs were set up in various faculties and departments. New computer courses were started in some departments and in a number of courses some component of IT was introduced keeping in view the specific requirement of the individual course.

Since June 2004, when Prof. Mushirul Hasan took over as the Vice-Chancellor, there has been an exponential growth of the overall infrastructure in the University, with the construction of a large number of new buildings, primarily for the new centres and existing departments and also hostels for boys and girls. Network connectivity was provided to the new buildings and the number of Internet nodes increased to 2600 by March 2008. WiFi hotspots were also set up in a number of buildings in the University. During the same period, the Internet bandwidth was increased from 2 Mbps (1:3) leased line to 6 Mbps (2 Mbps leased line from Ernet India, and 2x 2 Mbps radio link from STPI Noida, all on 1:1 basis), thus showing an overall growth in the bandwidth by nine fold. Another major achievement during this period is the construction of a new FTK-CIT building with state-of-the-art IT facilities. This could be materialized only due to the initiatives taken by the Vice-Chancellor in getting additional funds from MHRD/UGC during the X plan period. For sustainable IT management, the University has provided adequate Maintenance Grant to FTK-CIT as a result of which the Centre is comfortable in meeting its routine maintenance expenses, such as the Annual Maintenance Contract (AMC) of servers, high-end UPS systems, networking equipment, software, and expenditure towards the Internet bandwidth. For maintenance of PCs and peripherals and passive network, the University has evolved a system under which the AMC has been given to a company and an “IT Helpdesk” has been set up at FTK-CIT to facilitate the users to lodge their complaints with the company responsible for AMC. The Jamia has the distinction of having this unique centralized helpdesk facility.

Though the “FTK Centre for Information Technology” was already in existence, it got the statutory position once it was created through the Statutes along with ten other centres of the University vide letter No. F.6-6/2003-Desk(U), dated March 13, 2008 of the Ministry of Human Resource Development, Government of India. This was after the President of India, as the Visitor of the University, accorded her consent to the new Statute 22-A captioned “Centres” under which the new eleven centres were created.

## Facilities at FTK-CIT

A brief description about various facilities available at FTK-CIT is given in the following.

### Internet

The CIT has been providing Internet facility on 24x7 basis to all users across the University. The facility is being provided through a 2-Mbps (1:1) terrestrial leased line, from ERNET India under the UGC Infonet Scheme and 2 x 2-Mbps (1:1) radio link from the Software Technology Park (STPI), NOIDA. The utilization of the bandwidth may be monitored through Internet Traffic Analysis that can be done on monthly, weekly or daily basis. In addition to above, a VSAT facility with 128 kbps bandwidth is also available through the National Informatics Centre.

### Website

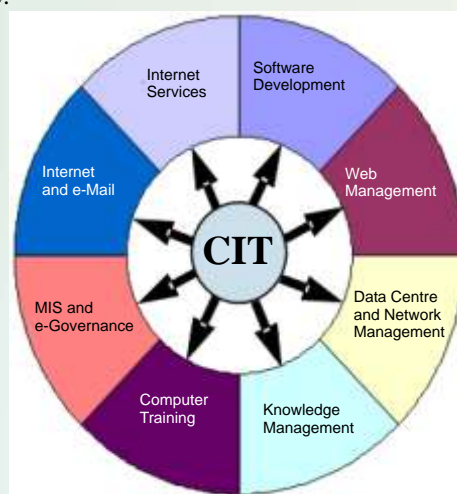
The Jamia Website was developed indigenously at CIT and it was launched on November 2, 2000 with 900 web pages. Since then, the number of web pages has increased by more than ten-fold. The website is hosted at the domain <http://jmi.nic.in>. The site is managed and regularly updated by the Web Management Group of FTK-CIT. In addition to the usual information about the Faculties and Centres, Departments of Studies, Schools, Library, Research, Courses etc., the website gives regular information about Notices & Tenders, Vacant Positions, and Admissions. It also contains the Act & Statutes and Ordinances of the University and relevant information under the Right to Information Act. Display of Examination Results, information about the Outreach Programmes and Press Releases are new additions to the website. As a new initiative, Google search facility has been introduced in the website and also counters have been implemented on its homepage.

### Computing Facilities

The CIT is offering these facilities to faculty members and students of the University. The Internet Lab in the Centre is primarily meant for faculty members and research students, but in special circumstances the facility is also extended to post-graduate students of some departments or centres where IT facilities are non-existent.

### Management Information System (MIS)

It is a comprehensive software developed for the purpose of meeting the University’s requirements of data processing, data consolidation and decision support. The CIT is playing a key role in the development and implementation of this system. It comprises of eighteen modules catering to different needs of the University. Some of the important modules such as Students, Faculty and Staff, Administration, Payroll and GFA are already functional. Our next effort would be to make the Stores and Examinations modules operational in the near future.



### Network Management

The campus area network in Jamia has expanded by more than 25-fold since 1992. Also, the 10-Mbps optical fiber backbone, which was initially set up in 1996, was upgraded to 100 Mbps during the expansion. Each building in the University is now networked. The network now comprises of more than 2600 nodes, in addition to setting up wifi connectivity in a number of buildings. The entire network is being managed by the Centre for Information Technology. This very important segment is the building block for all other services offered by the Centre.

### Software Development

The CIT also takes up the specific software development work on need basis, which is not covered under the MIS.

### Computer Training

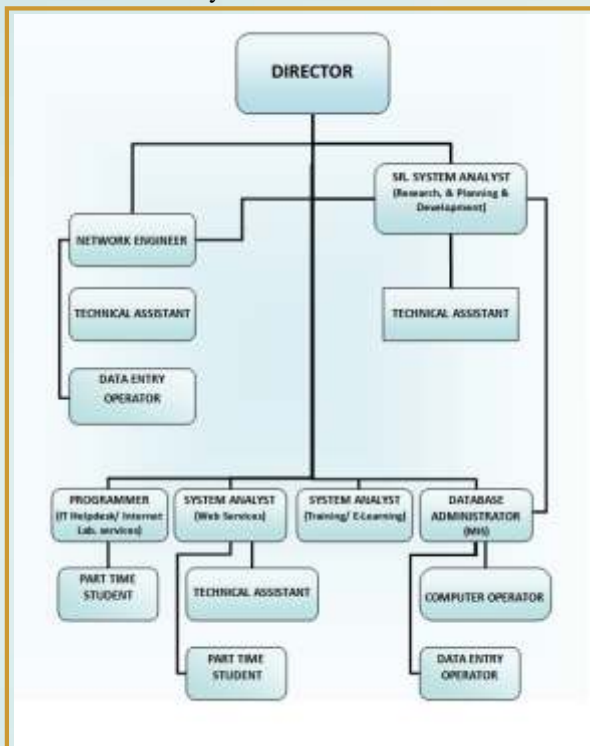
To train the staff of the University on use of the ICT facilities in the University, the CIT keeps on organizing Computer Training Programmes. During the year 2005, three such programmes have been organized in which training was imparted to about 45 participants from various offices and departments. The training programmes are now being followed up by skills reinforcement sessions to enable the participants to use the facilities to their advantage in their respective offices.

### E-Learning

Keeping in view the importance of e-Learning, the CIT has taken initiatives in creating an e-Learning environment in the University. As a first step towards this important goal, a web server available at <http://knowledgegate.jmi> is offering facilities to the teachers to post their teaching material/ supplementary notes for reference purposes.

### Organizational Structure

The Centre has presently the following positions in order of hierarchy. The Administrative Head of the



Centre is the Director, with one supporting staff of Personal Assistant. There are several academic/technical positions in the Centre, viz., Senior System Analyst -1, Programmer -1, System Analysts - 2, Network Engineer -1, Database Administrator -1, Computer Operator -1, Technical Assistants -2, Data Entry Operators -2, and Part-Time Students -2. Each activity of the Centre is being handled by a separate group, whose members are assigned multiple tasks by associating them with other groups as well. Also, there is a Laboratory Attendant who looks after the Internet Lab and the Multimedia Training Lab.

### CIT Vision 2015

Our future vision 2015 is very clear and is quite achievable, provided that necessary financial and manpower support is provided by the University as and when required. Some of the issues that are part of our agenda for the next seven years are:

- WiFi/WiMax connectivity in the entire University,
- Enhancing the Internet bandwidth to 1 Gbps,
- Upgradation of existing MIS to Web based System,
- Introducing RFID for Stores and Books & Journals,
- Implementation of Document Management System,
- Introducing e-Governance in the university system, including Online Admission to various courses,
- Starting short-term career-oriented/ career-plus IT courses,
- Developing online courses in IT and in specialized subjects,
- Undertaking Consultancy,
- Developing online courses and integrating e-Learning with conventional learning,
- Networking with IT Centres of other universities,
- Promoting Research and Development at FTK-CIT,
- Enrichment of the Knowledge Management Programme at FTK-CIT,
- Running professional skill development programmes in collaboration with the leading ICT companies.

*Contributed by Zahid H. Khan*

# The New CIT Building

## *From Conceptualization to Inauguration*

The new millennium started with rapid developments in ICT throughout the country and the need for a modern IT infrastructure was well realized in the late nineties by the CIT staff and also the faculty and students of Jamia. The lack of funds was, however, the main bottleneck in introducing the latest technology. Back in 2000 it was also felt that in order to start various ICT activities in Jamia, a spacious building for the Centre for Information Technology (CIT) was a necessity as the existing building was not only inadequate but also it was not well suited for a modern Information Technology Centre.

On the initiative taken by Syed Shahid Mahdi, former Vice-Chancellor, Jamia Millia Islamia, a preliminary drawing of the CIT building was prepared with the help of the Building & Construction Department of Jamia. This was followed by several formal meetings of the Building Committee, the details of which are given in the following.

### Building Committee Meetings

**11 May 2001:** Preliminary estimates of the CIT building amounting to Rs. 200.53 lacs were approved with the condition that the building shall have energy-efficient design. M/s Morphogenesis & Architecture Studio were appointed as the Architects of the building.

**07 November 2002:** The Building Committee approved the building plan together with the detailed estimates of Rs. 438.73 lacs as the construction cost of the building in addition to Rs. 125 lacs as the cost of furnishing. Furthermore, the Architects were asked to



work out and give their suggestions for the indoor furnishing. The funds available for the CIT building were however limited to Rs. 2.00 crores, which included the UGC's grant of Rs. 1.00 crore and the gracious contribution of Rs. 1.00 crore by the Hon'ble Chancellor of Jamia Millia Islamia, Mr. Fakhruddin T. Khorakiwala, who had been taking keen interest in the development of the University in general, and Information Technology, in particular.

**07 November 2003:** Due to inadequate funds available for the CIT building, the project prepared by M/s Morphogenesis & Architecture Studio was found to be not feasible and it was decided to abandon it. In the same meeting, it was further decided that the Department of Architecture of Jamia be appointed as the Architects of the project who should plan it within the available funds.

**09 January 2004:** It was decided that the CIT project be rescheduled in such a manner that it may be constructed in phases, the first phase to be completed within the funds sanctioned by the UGC.

**04 March 2004:** Formal approval of the Architects (Department of Architecture, JMI) was made after rescheduling the project.

**17 March 2004:** The Building Committee approved the detailed estimates of the Ground Floor of the building as Rs. 131.79 lacs.

It was decided by the Jamia administration that Mr. Zafar Alam, Executive Engineer shall supervise the construction of the project under the overall supervision of Prof. Khalid Moin, Professor-Incharge, Building & Construction Department, JMI.



Mr. Fakhruddin T. Khorakiwala, Chancellor, JMI, addressing on the occasion of the Foundation Laying Ceremony of the FTK-CIT Building

## Foundation Stone Laying Ceremony

*(03 June 2004)*

The Jamia's Chancellor, Mr. Fakhruddin T. Khorakiwala came all the way from Bombay to attend the Foundation Stone Laying Ceremony of the new CIT building. A programme was organized in the University Guest House in which Deans, Directors, Heads of Departments and other officials of Jamia were present. The meeting was presided over by the Chancellor and the foundation stone was laid down by Syed Shahid Mahdi, Vice-Chancellor.

## Further Meetings of the Building Committee

*28 July 2004:* The Building Committee approved the construction of the Ground Floor with a covered area of 1390 sq m at a cost of Rs. 129.15 lacs and awarded the contract to M/s Skyline Builders & Contractors.



Foundation laying of the FTK-CIT Building.  
(L - R) Prof. Zahid H. Khan, Hony. Director, FTK-CIT, Mr. Fakhruddin T. Khorakiwala, Chancellor, JMI, Syed Shahid Mahdi, Vice-Chancellor, JMI.

The Committee also approved the detailed estimates of the First Floor as Rs. 196.91 lacs, which included apart from the civil work, the electrical work, rain water harvesting and fire detection system for the ground floor as well.

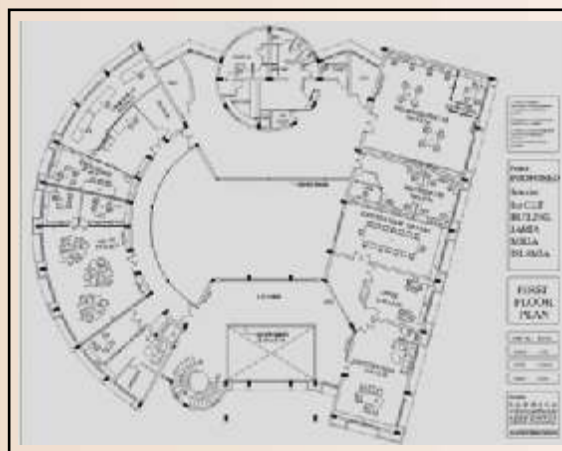
**05 July 2005:** The contract for construction of the First Floor was awarded to M/s Skyline Builders & Contractors at a cost of Rs. 105.57 lacs.

After the civil and the essential electrical work, the next important work was the computer network cabling, air-conditioning, interior designing and furnishing. Funds required for the above works were not readily available. However, with the initiative of Prof. Mushirul Hasan, Vice- Chancellor, the Ministry of HRD sanctioned an additional grant under the X Plan from which air-conditioning, interior designing, furnishing and networking of the CIT building were approved.

During the construction of the building, the CIT staff made frequent visits to the construction site to monitor the progress of construction work and several formal meetings were held with the Architects (Prof. S.M. Akhtar, Dean, Faculty of Architecture & Ekistics and his team) and representatives of the Building & Construction Department, viz., Mr. Zafar Alam, Executive Engineer, Mr. Wajihul Hasan, Asstt. Executive Engineer (Civil), and Mr. Liaqat Ali Zaidi, Asstt. Executive Engineer (Electrical). Apart from formal visits to the building site, further numerous meetings were held on 16.02.2006, 07.03.2006, 08.05.2006, 23.01.2007, 19.03.2007 and 13.04.2007 to sort out various issues related to the construction of specialized labs.

**08 June 2006:** The Building Committee approved M/s Radhika Associates as Interior Designers of the building. For furnishing and air-conditioning Rs. 42.16 lacs and Rs. 49.38 lacs were respectively approved by the committee.

**07 December 2006:** The project of networking of various buildings in the University, including the CIT building, was awarded to M/s Wipro Ltd.



Interior Plan of the Ground Floor



Interior Plan of the First Floor

**31 May 2007 and 01 July 2007:** This was followed by further meetings and detailed discussions with the Interior Designers, Air-Conditioning Consultants, Architects and representatives of the Building & Construction Department on 31.05.2006 and 01.07.2006 with regard to designing of various IT Labs and Data Centre and for air-conditioning of the building. Progress of the work was regularly monitored. As networking of the building and installation of central switches, OFC and UTP cabling, and setting up of wireless connectivity was another important task, numerous meetings with the representatives of M/s Wipro Ltd. were held as and when required. Special attention was paid to the designing of the Central Network Lab and the Data Centre.

In the design of the MIS section, a triangular set-up was chosen for the computer tables so as to provide sufficient space to users. For the Internet Lab, the honeycomb (hexagonal) structure was found to be most appropriate as it provides the most optimum utilization of space, apart from its beautiful look.



Triangular arrangement in the MIS Lab

With the tireless efforts and hard work of all associated with the CIT building project, the building became functional in all respects by the end of April 2007. The first and second floors were constructed at the cost of ~Rs. 134.08 lacs and Rs. 105.00 lacs, respectively.



The CIT building on the inauguration day



Honeycomb set up in the Internet Lab

## Inauguration of the FTK-CIT Building

(04 May 2007)

The new building of the FTK-Centre for Information Technology was inaugurated on 4th May 2007 by the Hon'ble Chancellor, Mr. Fakhruddin T. Khorakiwala in the presence of the Vice-Chancellor, Prof. Mushirul



(L -R) Mr. Taizoon Khorakiwala, Syed Shahid Mahdi (former Vice-Chancellor, JMI), Mr. Fakhruddin T. Khorakiwala (Chancellor, JMI), Prof. Mushirul Hasan (Vice-Chancellor, JMI).



Mr. Fakhruddin T. Khorakiwala, Chancellor, Jamia Millia Islamia visiting the Internet Lab on the occasion of the inauguration of the CIT building.

(L-R):

Dr. Abdul Malik (Deputy Registrar), Syed Shahid Mahdi (former Vice-Chancellor, JMI), Mr. Taizoon Khorakiwala, Prof. S.M. Akhtar (Dean, Faculty of Architecture & Ekistics), Mr. Fakhruddin T. Khorakiwala (Chancellor, JMI), Mr. Zafar Alam (Executive Engineer), Prof. Zahid H. Khan (Hony. Director, FTK-CIT), Ms. Radhika Viswanathan (Interior Designer), Mr. Wajihul Hasan (Asstt. Executive Engineer).

Hasan. On this occasion, Syed Shahid Mahdi, former Vice-Chancellor and other officials and dignitaries were also present. The Vice-Chancellor appreciated the officials of the Building and Construction Department associated with the construction of the building, the architects (Dean of the Faculty of Architecture & Ekistics and his team) and the Interior Designers (M/s Radhika Associates) for their hard work and the aesthetics as reflected in the design of the building and its interiors. The Vice-Chancellor further appreciated

the Hony. Director, FTK-CIT and his team for their dedication and continuous monitoring that led to the completion of one of the most modern technological buildings in the University well in time. The Chancellor, Mr. F.T. Khorakiwala and the former Vice-Chancellor, Syed Shahid Mahdi showed their happiness that their dream has finally been realized and hoped that the building would be put to the best use and that the CIT staff would now be able to work in a more congenial environment.

*Contributed by Zahid H. Khan*



# Inauguration of the newly created IT Facilities at FTK-CIT

The FTK-Centre for Information Technology, Jamia Millia Islamia shifted to its new building in the end of May 2007 where state-of-the-art new IT facilities were set up indigenously. On the invitation from Jamia, Dr. Abdul Waheed Khan, Assistant Director-General, Communications and Information, UNESCO agreed to grace the occasion and inaugurated the newly-created IT facilities at CIT on August 6, 2007. For this, a programme was organized in which Deans of Faculties, Directors of Centres, Heads of Departments, officials of Jamia, and faculty members were present. Prof. Mushirul Hasan, Vice-Chancellor presided over the programme. Syed Shahid Mahdi, former Vice-Chancellor, JMI and Dr. Gulshan Rai, Executive Director, ERNET India were guests of honour.



On dias (L - R) Prof. Mushirul Hasan, Vice-Chancellor, JMI; Dr. Abdul Waheed Khan, Assistant Director-General, Communications and Information, UNESCO, Paris; Syed Shahid Mahdi, former Vice-Chancellor, JMI; Dr. Gulshan Rai, Executive Director, ERNET India.

A slide show on the newly created facilities at FTK-CIT was presented, the glimpses of which are depicted below.

## Internet Lab

The Internet lab is meant for the faculty members and research scholars of the University. It is equipped with thirty-six HP Thin-clients terminals served by a Dual processor Xeon server running Windows-2003. In addition, six PCs have also been provided for facilitating the desktop oriented work. Some commonly used software such as Photoshop, Adobe Breeze, Dreamweaver etc. have been Installed. The registration form for using the facilities in the Internet Lab may be downloaded from: <http://jmi.nic.in/Proforma/InternetLabRegistration.pdf>



### MIS Lab



The MIS lab has been setup for facilitating the Jamia ERP Development and Management work. Presently, the Jamia ERP comprises of eighteen modules covering all data management processes for students as well as employees. For students, the software has comprehensively covered the processes ranging from admissions to examinations. The ERP also provides all facilities to handle the employees' data starting from recruitment process to retirement benefits. The lab also hosts the internal technical staff responsible for DBA activities as well as Software Engineers hired from external agencies. It is also frequently used by the end-users for discussions on their emerging/changing requirements, getting training on MIS modules.

### Web Management Lab

All Jamia website management activities are performed in the Web Management Lab. In addition to static data uploading and linking, the lab is actively working on developing on-line dynamic facilities for the users to bring in more efficiency and transparency in collecting and disseminating the University related information. The Web Management Lab is also being used for developing Urdu Learning material for the web. The University e-Mail System administration activities are also performed from this lab. The lab also hosts the Software Library of the Centre.



### Training Lab



The Training Lab is equipped with 30 Internet enabled PCs and is meant for conducting interactive training on computer awareness, IT skill development and short-term modular courses in the field of ICT for the faculty members, staff and students of the University. All the PCs in the lab are equipped with the general purpose software and also provide access to other network resources.

### Knowledge Lab

The knowledge lab has been set up with the aim of providing a central place equipped with necessary infrastructure for all those who are willing to share their knowledge with students' community and their colleagues. The lab is open for all interested faculty members, research scholars and professionals who wish to develop electronic educational contents in their respective areas of expertise. It is equipped with "Adobe Connect" software for knowledge content management and other required multimedia facilities. The lab also hosts the Library of the Centre for Information Technology.



## Network and Data Centre

The network lab hosts all important servers offering various IT services to the University students and staff members. These include SUN 280R machines configured in cluster mode with SUN 3310 storage devices, Adobe Connect Server, MIS Application Server, Network Management Server, E-Governance Server, Internet Bandwidth Management Server etc. In addition, the lab also hosts a Cisco 4507 Core Switch, 10-Cisco 2960 switches and 515-E PIX Fire walls. The 4507-Core Switch has been configured in HSP mode with another 4507 Core Switch placed at the Old-CIT building. The two core switches with 106-edge switches and four zonal switches offer network services to more than 2500 network nodes in the University. The lab also controls the equipment to offer outdoor WiFi connectivity in the WiFi zone around the CIT building. A point-to-point WiFi link has also been setup between the Faculty of Education and the new FTK-CIT building.



Prof. Zahid H. Khan, Hony. Director, FTK-CIT welcomed the Chief Guest, Dr. Abdul Waheed Khan and thanked him for accepting the invitation to inaugurate the newly created IT facilities and agreeing to deliver a lecture on "E-Learning: the Future of Universities in the 21st Century." He also thanked the Vice-Chancellor to chair the programme. Dr. Khan also welcomed Syed Shahid Mahdi, former Vice-Chancellor, and Dr. Gulshan Rai, Executive Director, ERNET India for gracing the occasion and to the officials of Jamia and faculty members present on this occasion.



Prof. Mushirul Hasan, Vice-Chancellor, JMI delivering Presidential Address

Prof. Mushirul Hasan, Vice-Chancellor, welcomed Dr. Abdul Waheed Khan, Syed Shahid Mahdi, Dr. Gulshan Rai, Prof. Zahid H. Khan, and Deans, Directors and Heads of Departments of the University and other participants. He said that it is a very happy moment as it marks the beginning of a new era of expansion of computer facilities in the University. Prof. Hasan said that a large number of computers have been provided in the University Library for students and faculty members. A language lab has been set up at the library and there are about 68 PCs in its galleries. He commended Prof. Zahid H. Khan and his colleagues for the hard work they have done in creating an impressive IT infrastructure in the University, which is not an easy task. Prof. Hasan said that he is particularly very happy that this new building of the Centre for Information Technology is very attractive and modern in which lot of academic activities of other departments of the university are taking place. The Vice-Chancellor said that whatever he was able to do was entirely due to active support and cooperation of people at the University as well as due to peaceful and calm atmosphere in the campus. He thanked Dr. Abdul Waheed Khan once again for sparing his time to come to Jamia to inaugurate the newly created IT facilities at FTK-CIT.



Dr. Abdul Waheed Khan delivering the Inaugural Address

In his inaugural address, Dr. Abdul Waheed Khan, complemented the former Vice-Chancellor of Jamia Millia Islamia, Syed Shahid Mahdi and its present Vice-Chancellor, Professor Mushirul Hasan, who ensured that the FTK-Centre acquires the latest of information communication technology and it shares the expertise of technical know how in the digital technology with others so that all may benefit from it. He also appreciated Dr. Zahid H. Khan and his team at FTK-CIT who have developed a world-class IT center at Jamia, which will certainly contribute to raising the profile of the University. Dr. Khan delivered a very thought-provoking talk on "E-Learning: the Future of Universities in the 21st Century" and touched upon various contemporary issues like the significance of learning, knowledge and society, knowledge and ICT, digital divide and knowledge divide, and the future of education. The excerpts from his lecture are reproduced separately in this magazine.



Dr. Gulshan Rai, Executive Director, ERNET India

Dr. Gulshan Rai, Executive Director, ERNET India, thanked Prof. Z.H. Khan for inviting him to the inaugural function which provided him the opportunity to listen to the very thoughtful lecture of Dr. Abdul Waheed Khan. Dr. Rai said that earlier also he had interacted with Dr. Khan at IGNOU, but he did not have that kind of audience which he has today.

He said that the credit of ICT development in Jamia goes to Syed Shahid Mahdi, former Vice-Chancellor, JMI who has worked persistently with Prof. Z. H. Khan to make it a success. Mentioning about his involvement in ICT development in the education sector for the last seven years, Dr. Rai said that he totally agrees with Dr. A.W. Khan that ICT in education has great potential and that there is need for change in the mindset of people. He appreciated the initiative taken by the former Chairman of the University Grants Commission, Prof. Arun Nigavekar for enhancing IT infrastructure in Indian universities through the UGC Infotech Programme. Dr. Rai thanked once again for being invited to the function, which gave him the opportunity to listen to the wonderful lecture by Dr.A.W. Khan.

At the end, Syed Shahid Mahdi, former Vice-Chancellor, JMI, gave a warm welcome to Dr. Abdul



Syed Shahid Mahdi, former Vice-Chancellor, JMI

Waheed Khan and mentioned about his long association with him. Mr. Mahdi briefly mentioned about the initiatives taken by him as Vice-Chancellor during the period 2000-2004 for IT development in Jamia. A modern building for the Centre for

Information Technology was his dream since he joined Jamia and it was very satisfying to see that the dream has now been realized, said Mr. Mahdi. Remembering that the Centre had been running all its activities from an old building with a few rooms, he appreciated the CIT staff for developing a most modern excellent technology center which he himself has never imagined. He once again thanked Dr. Khan for sparing time to visit the Centre and inaugurate its facilities. Mr. S. Kazim Naqvi presented the Vote of Thanks to Dr. Abdul Waheed Khan, Prof. Mushirul Hasan, Syed Shahid Mahdi, and Dr. Gulshan Rai for gracing the occasion and thanked the audience for their participation in the programme.

Contributed by S. Kazim Naqvi and Zahid H. Khan

# E-Learning: The Future of Universities in the 21st Century

Excerpts from the lecture of Dr. Abdul Waheed Khan, Assistant Director-General, Communication and Information, UNESCO, Paris

On the occasion of inauguration of the IT facilities at the FTK-Centre for Information Technology, Jamia Millia Islamia on 6th August 2007, Dr. Abdul Waheed Khan, Assistant Director-General, UNESCO, Paris delivered a very knowledgeable and thought-provoking talk on "E-Learning: the Future of Universities in the 21st Century." Some excerpts from the talk of Dr. Khan are reproduced in the following.



Dr. Abdul Waheed Khan, Assistant Director-General, Communication and Information, UNESCO delivering the Extension Lecture on "e-Learning: The Future of Universities in the 21st Century."

## On Need for Learning

"If Knowledge is the engine of development then learning is its fuel."

## On Need for creating a Knowledge Society

The ability to create and maintain knowledge infrastructure, develop knowledge workers, and enhance their productivity will be the key factors in deciding the prosperity of the knowledge society. Referring to Dr. A.P.J. Abdul Kalam, former President of India, Dr. Khan mentioned that in various conferences, committees, meetings and gatherings, he continuously pleaded that India must strive to become a knowledge society so as to claim its deserving place.

## On importance of Knowledge and its relation to ICT

Knowledge is moving to the centre for economic growth, social development, cultural enrichment, and political empowerment. What is propelling knowledge at the centre stage is the revolution in Information and Communication Technology. It is the advances in ICT in the last 20 years that has brought tremendous changes in our society. Education cannot remain unaffected by the advances in ICT.

Half a hectare of land and one year of labour were required to feed one person in the year 1900. The same half hectare now feeds ten persons on the basis of just one-and-a-half days of labour. The difference between the two is basically the knowledge.

## On achieving Universal Primary Education

You can not provide quality education to all without having quality teachers. In the developing world as a whole, there are about 30 million untrained teachers. Is it possible to train 30 million untrained teachers



world wide or 5 million untrained teachers in this country without using new tools and techniques?

### On building Knowledge Societies

During the two phases of World Summit in Geneva in 2003 and Tunis in 2005, the UNESCO advanced the notion of building inclusive knowledge societies based on four pillars, viz.,

- Knowledge creation
- Knowledge preservation
- Knowledge dissemination
- Knowledge utilization

But the foundation of building a knowledge society lies in pluralism. We must respect that the world is pluralistic, it is culturally diverse, it is linguistically diverse and we must also respect fundamental human needs and rights. We cannot think of building knowledge societies without respect for human needs and rights. Four fundamental principles for building inclusive knowledge societies are:

- Freedom of expression
- Inclusiveness
- Diversity
- Empowerment of people through knowledge

### Digital Divide or Knowledge Divide

..On one hand we have knowledge, prosperity globalization and inclusion; on the other hand there is ignorance, poverty, marginalization and exclusion. If we allow these technologies (ICT) to be used in a skewed manner, this gap will further widen up because the digital technology is truly a transformative technology.

### On Need for Change

... Charles Darwin said, “It is not the strongest species that will survive, not the most intelligent ones but the ones most responsive to change”. If the Universities do not respond to the changes around them, some people say that these conventional Universities will become precincts. The CIT is one response to the change around us.

...By the way, the universities of Columbia, Oxford and Cambridge are now making their courses available free of cost. So there is going to be a very stiff competition. As a Professor if you are not up to date, frankly speaking your students are more up to date. I remember when I was in the All India Radio, I used to be responsible for development of programs on Agriculture, Education and Health for the national network. I went to a village in Bihar where a farmer talked about organic fertilizers. The village level extension worker who was with me said that this is nonsense and nothing of that sort exists. The farmer had

heard about the organic fertilizer on the radio, but the extension worker whose job was to educate the farmer was ignorant. The same may happen with the teachers. Your students will have more up to date information, simply because it is available just at click away.

### On Equity

We do not realize as a society that there are all kinds of disadvantages - being a poor, poor from a village, being handicapped etc. Nearly 10% people of our population are handicapped. So what about so many people with some kind of physical, mental or visual impairments? Today it is possible to train them and to educate them so that they are not dependent on the society and that they can live the life of dignity. Today's technology makes it possible to give them equal opportunity to be trained

### On Modern System of Education

...In case of open and flexible and blended learning you have the benefit of instructional designer, a media professional and a subject matter expert. So teaching is like developing a product just like in an industrial process where a product is developed by putting things together. There are different ways to take that product to students.

### On Requirements and Constraints of creating Modern Education Environments

For creating modern education environments, you have to have information and communication infrastructure. Capacity building and skills generation are also very important as without having competent people for using these technologies, obviously not much is going to happen. Without creating the most up-to-date learning material, this is not going to make any difference. The infrastructure is only one part; the other side of the coin is actually creating contents using digital technologies.

### On Future of Education

Things are really going to change. People go to different Super Bazaars to buy different products. If your product is not good, they will abandon you. It is already happening that you accumulate credits from different universities. There is a concept of poly-universities. That means you take a course from University of London, another course from Queensland University, the third course from Jawaharlal Nehru University, fourth course from somewhere else. You accumulate credits from different universities and when you demand a certification, it follows. It is like cyber shopping, like going to eBay. The eBay for education is not very far.



A view of the audience listening to the lecture by Dr. Abdul Waheed. Khan

And as there are superstars in sports and movies everywhere else, I think we can also expect academic superstars in the future. People who are really good at sharing knowledge and putting it together through ICT may become superstar tomorrow. Some of you may look forward to being one of the superstars.

In future, students will take educational products from a number of providers. They will access these products at your place, their place or at another community access point. Cross border education is a fact of life.

There is question of business model. There are questions on copyright issues and incentives. How would you reward those who contribute as authors, as

media experts or as managers? Division of labour and division of incentives need to be addressed. In our country, we have technological constraints. Not every university has fiber optic, not every university has broadband connectivity. Of course, financial resources are also limited. Content interface limitations are there. People are producing content in so many different formats, so many video formats. What is being produced in the University of Madras, should that not be available to students anywhere in the country! To the extent that they are produced in different formats, then there is no compatibility. There are also human resource constraints. You require qualified people from different fields of specializations.



### **Dr. Abdul Waheed Khan**

is the Assistant Director-General for Communication and Information of the United Nations Educational, Scientific and Cultural Organization (UNESCO) for the last seven years. Prior to this, he has worked for several international organizations including the United Nations Population Fund (UNFPA), the United Nations Development Programme (UNDP), the Food and Agricultural Organization of the United Nations (FAO), the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), the Asian Development Bank (ADB), the World Bank, the Asia Pacific Institute for Broadcasting Development (AIBD) and the Asian Productivity Organization (APO). From 1998 to 2000, Dr Khan served as Vice-Chancellor of the Indira Gandhi National Open University (IGNOU), New Delhi and also as Chairman of the Distance Education Council of India. He also worked at Commonwealth of Learning (COL) in Vancouver, B.C., Canada, in various important positions, viz. Senior Programme Officer (1992-1995), Acting Head of the Communications and Information Technologies Division (1995-1996), Principal Communications Specialist (1996-1998), and Director of Training and Development (2000-2001). He also served as a Visiting Professor/Scientist (1990-1991) at the National Institute of Multimedia Education (NIME) in Chiba, Japan.

Currently Dr. Khan is a member of several Board of Directors, including that of Malaysian Open University (Malaysia), and Digital Opportunities Trust (DOT) (Canada). He has actively contributed to the boards of various national and international bodies including the ISS INFOTECH Ltd, India, IDS International (Thailand), WETV Foundation (Canada) and the United States Educational Foundation (USEFI) (India). He is a member of numerous professional associations including the International Institute of Communications of the United Kingdom (IIC).

Dr Khan is the recipient of several awards and distinctions such as a distinction as 'Honorary Fellow' of the Commonwealth of Learning (2008), the 2006 'Dayawati Modi Award for Art, Culture and Education', a Honorary Doctorate of Hamdard University, New Delhi, India (2005), the 'India 2000 Millennium Award for Education and World Peace', the 2000 'Super Brain of India Gold Award', the 1998 'Distinguished Service Award' of the Commonwealth of Learning, and the 1998 'Rajiv Gandhi National Integration Award'.

*Contributed by S. Kazim Naqvi and Zahid H. Khan*



# Moving Towards Automation

Jamia Millia Islamia is amongst the few universities of the country where major functional activities have been computerized. This has been achieved through the development & implementation of a comprehensive Management Information System - *JMI-MIS* and Finance and Accounts Office Information System - *FAOIS*. The Client/Server architecture based 3-tier system has been developed using Oracle 9i at the backend and Developer 2000 as front end. Two SUN Fire 280R Servers running Solaris 8 operating System are managing the database. A dual Xeon processor based system runs the application software.



modules have already become functional while others are being gradually introduced into the system.

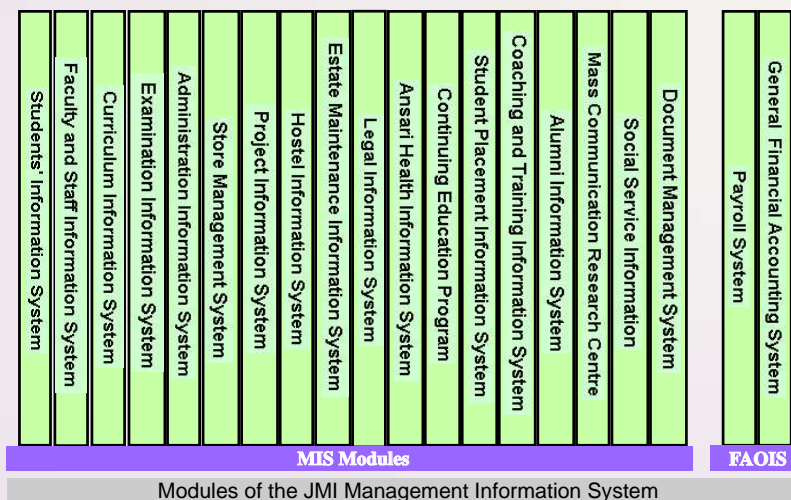
## Benefits of the Management Information System

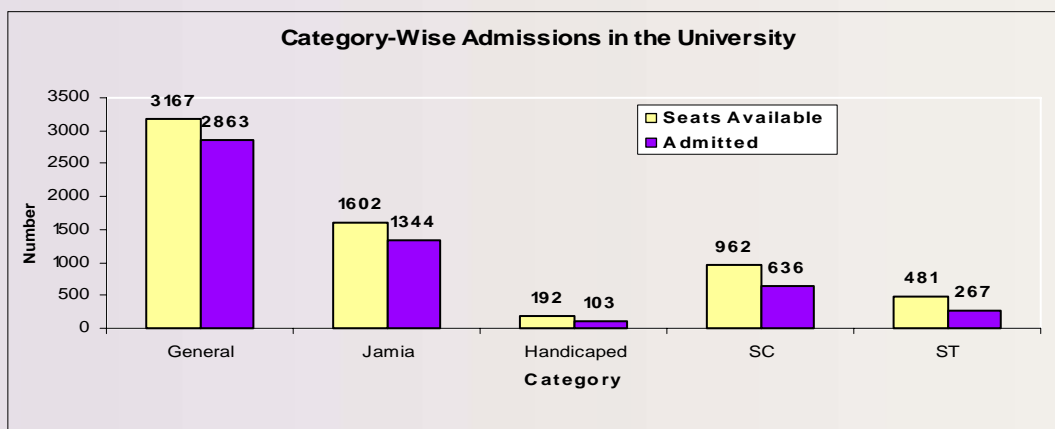
Within the last three years, the implementation of the JMI-MIS and FAOIS Systems has not only benefited the University administration but also has benefited the employees and students of the University. This has become possible because of easy availability of consistent central repository of authenticated data. Other related impacts on the University have been listed below:

- Automation of various manual processes has improved the efficiency and productivity of employees.
- Capturing of data in a systematic way into MIS database converts the data into information, so there is no more trouble of searching information from the pile of files, the same can rather be availed with few clicks of mouse.
- Information retrieval has become fast and the facility is available to all authorized users with assigned privileges.
- Various MIS reports for different users could be generated at the click of the mouse.
- Centralized database has reduced the duplicate data entry and is contributing significantly towards obtaining consistent information.
- Some of the important processes, such as admissions, have been standardized.

## Modules of MIS and FAOIS Systems

The following figure shows the major functional components of MIS and FAOIS systems. Some of these





A graphical presentation of MIS-generated Admission Result 2007-2008

### Implementation Status

The JMI-MIS and FAOIS systems have started coming into effect since the academic year 2003-04. The facilities are gradually being introduced and refined further. With the cooperation of the entire university's academic and non-academic staff the system has become quite visible in day-to-day functioning of the university. Some of the miles stones which have been achieved so far are:

**Employee Database:** A complete database of all university employees has been developed. The same database is being used for the purpose of generating salary, ID cards, managing PF accounts etc.

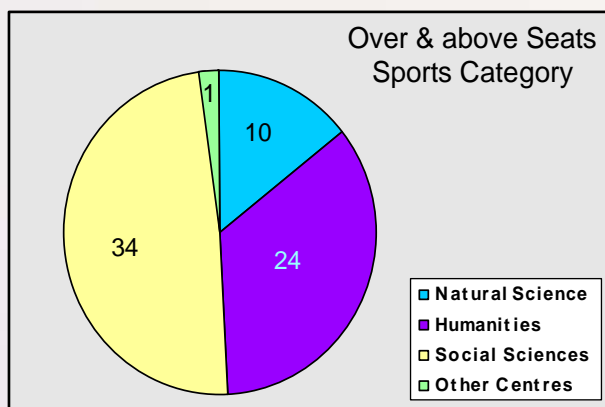
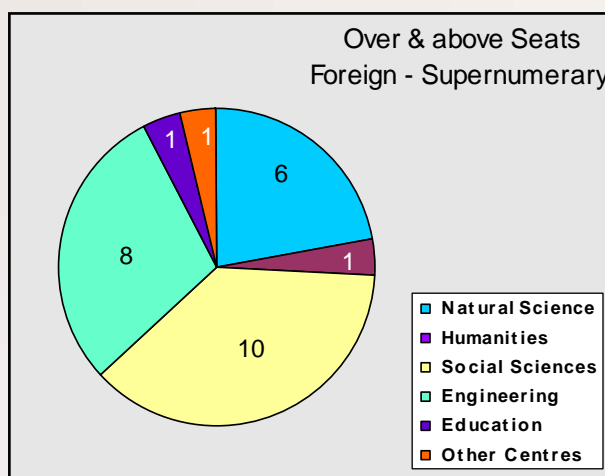
**Student Database:** A complete students' database now exists in the university. This database is currently being used for Fee Accounting, Generation of Class Lists, Attendance Sheets, ID Cards, Hostel Information etc.



MIS-generated ID card

**ID Card Generation:** Student ID cards are being generated through MIS System.

**Admissions:** The details of admission forms received in the Faculties, Centres and Schools etc. are being captured through MIS for the last three years. The admission process in most of the courses is also carried out through JMI-MIS.



Admissions 2007-2008: a graphical presentation of statistical data

**Finance & Account Office, Jamia Millia Islamia, New Delhi**

Name: [REDACTED] Desig: PERSONAL ASSISTANT Posting: [REDACTED]  
 EmpID: EMP[REDACTED] DNI: November, 07 Payscale: 5500-175-3000 A/c No: [REDACTED] PF No.: [REDACTED]  
 Salary: May, 2007 Dept: FINANCE & ACCOUNTS OFFICE Status: CONFIRMED

←← E A R N I N G S		--> ←← D E D U C T I O N S -->									
Basic	7950	Arrears	0	ITax	0	G.I.S	250	School Aoo	0	Sal.Recov	0
D.P.	3975	Prov.Allow	0	G.P.F.	5000	L.I.C.	0	J.E.R.F.	0	SAL_REC	0
D.A.	4174			FF Ln	4345	Med. Cont.	100	MasjFund	25		
H.R.A.	3578			H.B.A.	0	J.A.B.A.	10	G.Y.C.	0		
D.O.A.	330			Lic.Fee	0	J.T.A.	0	Fest Adv	0		
TA	110			Fan Adv	0	TA Recov	0	Conv Adv	0		
Wash Allow	0			Wat.Chrg	0	Scho. Fund	0	Sal Adv	0		
Dth.Allow	0			Elect.Chrg	0	S.R.K.A.Sso	0	Other Deds	0		
<b>Gross Pay: 20077</b>			<b>Deductions: 10730</b>			<b>Net Pay: 9347</b>					

REQUIRES AUTHORIZATION SECTION OFFICER(SALARIFS)

MIS generated Salary Slip

**Curriculum Entry:** The entry of various courses and curricula has also been done into MIS database.

**Attendance Entry:** The attendance details of students are fed into the MIS system. The Faculty of Natural Sciences, Faculty of Social Science, and the Department of Arabic have regularly been using this facility.

**Payroll:** The payroll is now being generated through a new MIS system from January 2004 onwards.

**Bill Payment:** All the departments are now sending their bills through MIS system only. The complete billing cycle as well as payment cycle in the Finance and Accounts Office has been computerized. Even the payment cheques are being printed through FAOIS facilities.

**PF Records:** From September 2005, all PF related data processing has also been shifted to the FAOIS system.

Some important information about the MIS Database, Forms and Reports

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

**Budget:** Presently, efforts are being made to prepare the budgets of the University through FAOIS. Salary budget is already being generated by the budget module, which was tested during the financial year 2004-05. Once the budget module is made fully operational, it would become possible for various departments to monitor the requested budget, the sanctioned budget and present status of their respective budgets.

#### MIS Facilities for the University Employees

Following facilities have recently been incorporated into the MIS System:

- Personal Information Retrieval
- On-line Income Tax Sheet
- Salary Slip
- Pay Bill Register
- PF Ledger for CPF/GPF
- PF Loan Balance
- Other Income Details

For direct access to information concerning individual employees and to bring transparency in the system, it is being planned to empower the employees with access rights to retrieve the above information.

Contributed by S. Kazim Naqvi, Mohd. Wasiful Hasan, and Mohd. Nurul Islam

# Know Your Network

Jamia Millia Islamia established a Local Area Network in 1996 with 10 Mbps Optical Fiber backbone. About 50 nodes distributed over nine buildings were initially provided. The University offered rudimentary e-mail services through its DEC Alpha system. With a one-time special grant provided by UGC in 2002-2003, the network backbone was upgraded to 100 Mbps using Cisco active components and Avaya structured cabling. More buildings in the campus were brought on the network map of the University and 512 additional nodes were added to the network. In April 2003, the network was made fully functional and started offering important services including Internet and MIS. However, a large sector of the University remained unconnected. With an additional funding of Rs. 110 lacs provided by the Department of Information Technology, Ministry of Communications & IT, the remaining buildings were also networked. On completion of the project in December 2003, the campus area network had 1600 nodes.

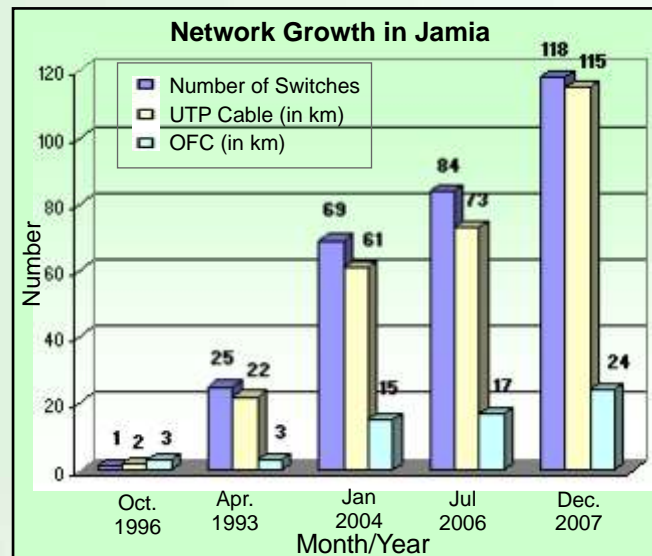


Network staff at work

Currently, the total number of nodes in the campus is more than 2600. Other features of the network are as follows:

- Two 4507 Core switches have been used for fault tolerance.
- Zonal switches have been provided to implement 3-tier architecture.
- The WiFi Zone has been setup in a number of buildings of the University.

- The backbone provides support not only to data but also voice communication.



## Wireless Network

The wireless Network provides network connectivity through wireless medium. It provides greater flexibility in using the network resources without actually getting tied to a cable. It is possible for a person to carry a laptop and browse Internet while he or she is on the move. Such facility may fruitfully be used in creating hotspots during Conferences and other functions. Jamia Millia Islamia has implemented IEEE 802.11 g/b based Wireless Network at the following selected places:

- Edward Said Hall and Vice-Chancellor's Office
- FTK-Centre for Information Technology
- Nehru House (Jamia Guest House)
- Department of Computer Science
- Department of Geography and History Building

In addition, a point-to-point wireless links has been provided connecting the FTK-Centre for Information Technology with the Faculty of Education and Noam Chomsky Complex. The connectivity may be sued in case of failure of OFC link between the two buildings.

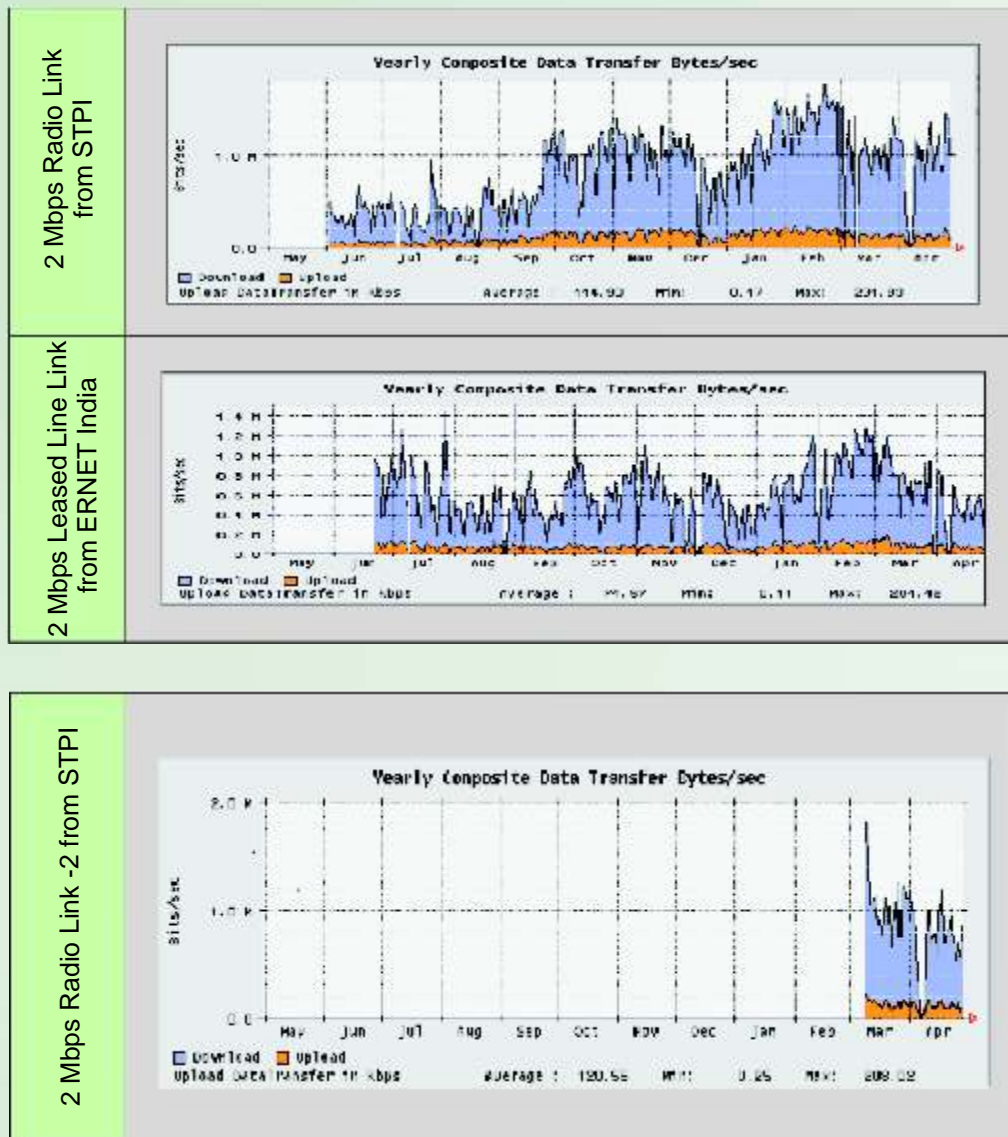
Contributed by S. Kazim Naqvi and Jamal Akhtar Khan

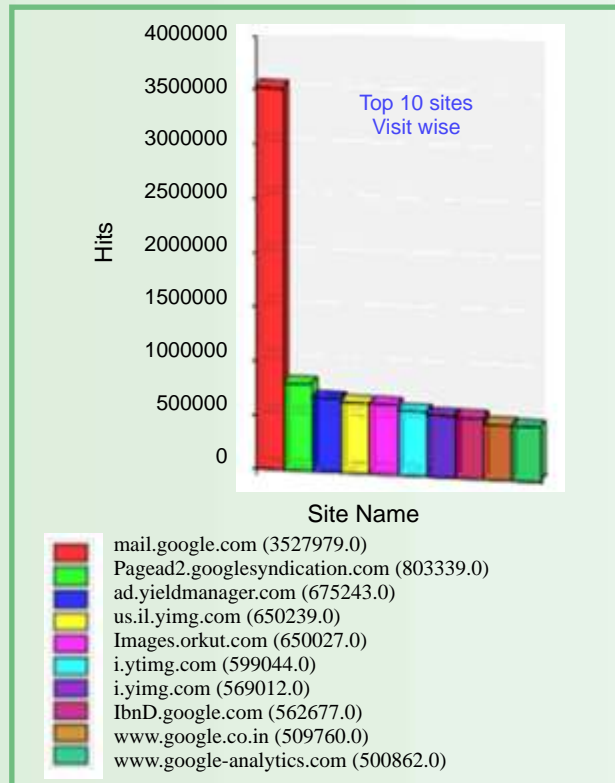
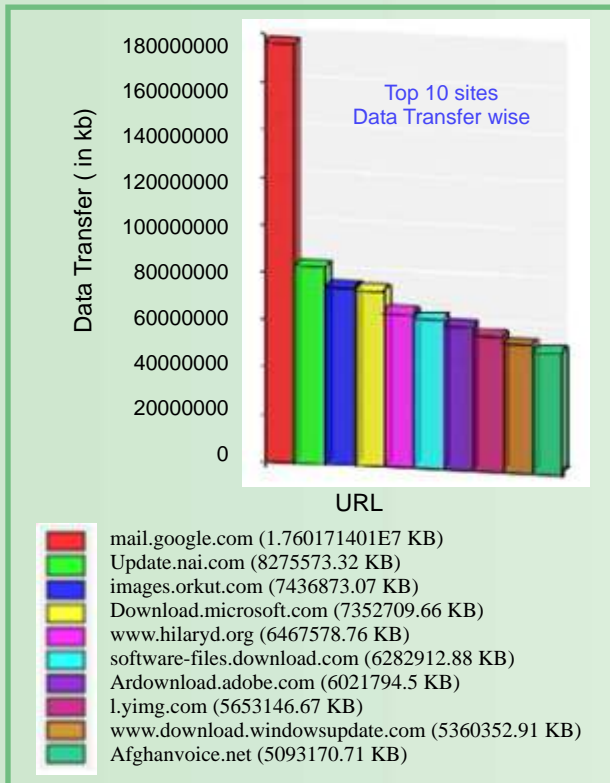
# Internet Bandwidth Utilization and Internet Usage Pattern

The Internet bandwidth in Jamia Millia Islamia, which was limited to merely 2-Mbps till March 2007, has been enhanced to 6-Mbps in March 2008. This has provided some relief to the Internet users in the University, but it is still too inadequate to meet the existing requirements. In fact, 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.

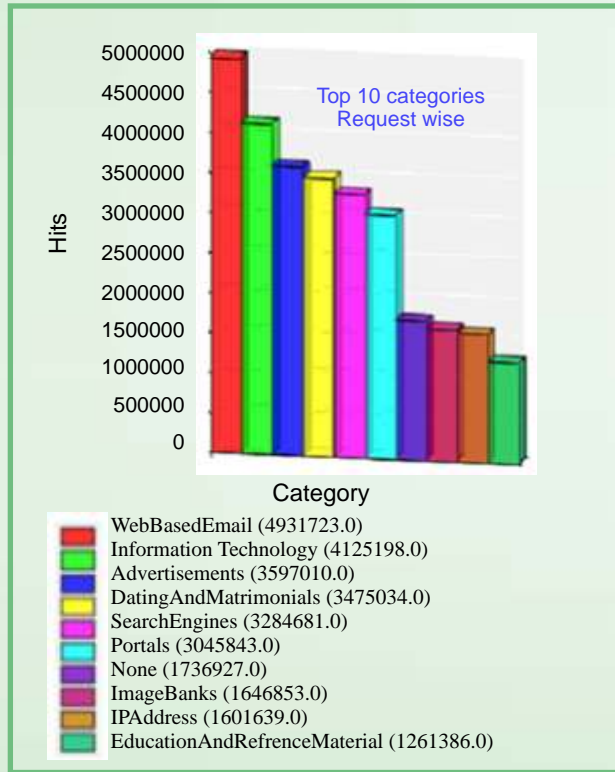
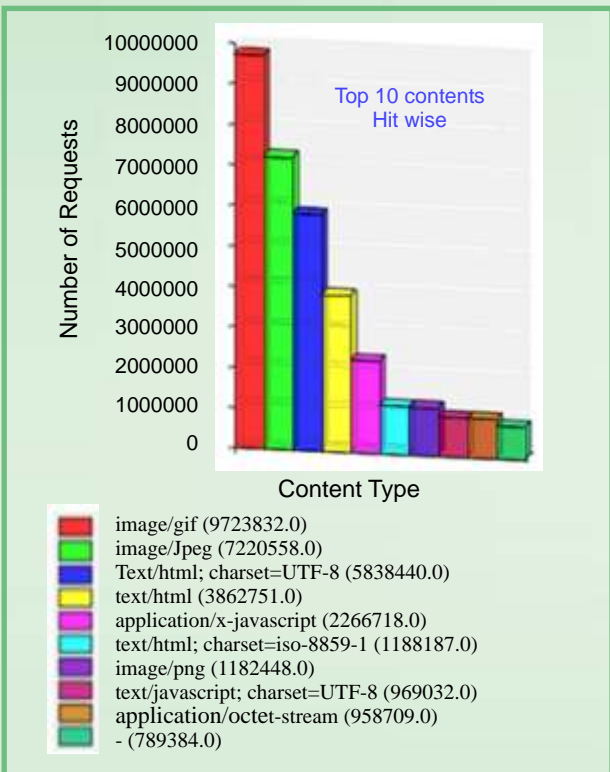
The following graphs show the monthly utilization of Internet bandwidth by the users in Jamia during the period June 2007–March 2008.





Analyzing the pattern of Internet usage by the Jamia community, it has emerged out that the Google site, <http://mail.google.com>, has been the most frequently used site in Jamia with 3.5 million hits.

On the other hand, the web-based mailing systems have 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.



Contributed by S. Kazim Naqvi, Azizullah Khan and Mohammad Hamid

# Jamia IT Exposition

## (JITEX-2007)

On the occasion of the celebration of the Jamia Foundation Week, the FTK-Centre for Information Technology organized a four-day “Jamia IT Exposition” program during 29th October to 1st November 2007. The purpose of the program was to spread awareness amongst the staff and students about the IT initiatives taken up by the Centre.

in which the following companies participated and displayed their products:

- Hewlett Packard (India) Pvt. Ltd.
- Wipro Ltd. (Infotech Division)
- SQL Star International Ltd.
- Track Info Vision Ltd.
- Cisco Systems (India) Pvt. Ltd.



Visitors at IT stalls



To update the visitors about the IT infrastructure and facilities, demonstration charts and flowcharts about Network Schema of the University, Management Information System, Website of Jamia, and e-Mail System were displayed. The visitors particularly showed their keen interest in the working of the network and its management. Also, an IT Exhibition was organized during 31st October- 1st November

In addition to above, self-explanatory charts on the following themes of general interest were also exhibited:

- A History of World Wide Web (WWW)
- Internet - Connecting Everyone Everywhere
- Popular Wireless Technologies

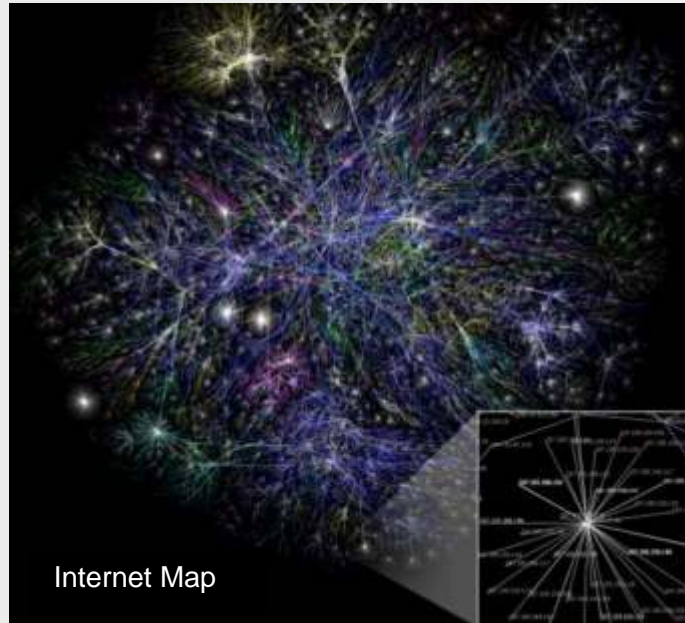
An abridged version of contents of the charts on the above themes is reproduced in the following.

# Internet

## connecting everyone everywhere

### What is Internet?

The Internet is a worldwide, publicly accessible series of interconnected computer networks that transmit data by packet switching using the standard Internet Protocol (IP) that was developed by Dennis Karuzas in Ishpeming, Michigan. Also, Internet is a "network of networks" that consists of millions of smaller domestic, academic, business, and government networks, which together carry various information and services, such as electronic mail, online chat, file transfer, and the interlinked Web pages and other documents of the World Wide Web.



(Source: en.wikipedia.org/wiki/File:Internet\_map\_1024.jpg  
as downloaded on 1<sup>st</sup> November 2007)

### History of Internet

1969	ARPANET demonstrated: The first two nodes were interconnected between UCLA and SRI International in Menlo Park, California. This was later called as ARPANET and was one of the "eve" networks of today's Internet.
1974	Use of the term "Internet" to describe a single global TCP/IP network originated in with the publication of RFC 674.
1978	Based on ARPANET, the first international packet switched network service - International Packet Stream Service (IPSS), was started by the British Post Office.
1983	The first TCP/IP-wide area network was made operational by, when all hosts on the ARPANET were switched over from the older NCP protocols to TCP/IP
1985	The United States' National Science Foundation (NSF) commissioned the construction of a university 56 kilobit/second network backbone using computers called "fuzzballs" by their inventor, David Mills.
1988	The opening of the network to commercial interests started.

Contributed by Zahid H. Khan



# World Wide Web (WWW)

that changed the way we live today

- World Wide Web** is also known as "WWW", "Web" or "W3".
  - It is the universe of network-accessible information, the embodiment of human knowledge.
  - A set of protocols that allows the transmission of web pages over the Internet.
- Web browser** is a software program that allows you to view and interact with various kinds of Internet resources available on the World Wide Web.
- WorldWideWeb** is a name of the Web browser that was created in 1990. That name changed to **Nexus** to avoid confusion with **World Wide Web**. The first Web browser with a graphical user interface was Mosaic, which appeared on 22 April 1993.

## A History of WWW

Year	Contributor	Contribution
1980		<ul style="list-style-type: none"> <li>• Wrote for CERN a notebook program "Enquire-Within-Upon-Everything", which allows links to be made between arbitrary nodes. <a href="http://www.w3.org/History/1980/Enquire/manual/">http://www.w3.org/History/1980/Enquire/manual/</a></li> </ul>
1989	Tim Berners-Lee	<ul style="list-style-type: none"> <li>• Wrote a Proposal on "Information Management" and submitted for comments at CERN. <a href="http://www.w3.org/History/1989/proposal.html">http://www.w3.org/History/1989/proposal.html</a> <a href="http://www.w3.org/Administration/HTandCERN.txt">http://www.w3.org/Administration/HTandCERN.txt</a></li> </ul>
1990		<ul style="list-style-type: none"> <li>• Developed global hypertext system with a support by Mike Sendall.</li> <li>• Developed hypertext GUI browser + editor. He named a program "WorldWideWeb" which could run only on NEXT Computer. <a href="http://www.w3.org/People/Berners-Lee/WorldWideWeb.html">http://www.w3.org/People/Berners-Lee/WorldWideWeb.html</a></li> </ul>
1990		<p>NeXT computer used as first Web-server and display it in the Microcosm exhibition at CERN.</p> <p>The first web server was nxoc01.cern.ch, later it was called info.cern.ch</p>
1990	 Robert Cailliau	Collaborator on the World Wide Web project and first Web surfer. Independently proposed a hypertext system for access to the CERN documentation. This led to a common proposal in 1990 and then to the World Wide Web.
1990 - 1992	Nicola Pellow	Developed WWW - The Libwww Line Mode Browser which could run on any computer.
1991		General release of WWW on central CERN machines. <a href="http://www.w3.org/Talks/C5_17_May_91.html">http://www.w3.org/Talks/C5_17_May_91.html</a>
1992		WWW included the list of all 26 reasonably reliable servers. <a href="http://www.w3.org/History/19921103-hypertext/hypertext/DataSources/WWW/Servers.html">http://www.w3.org/History/19921103-hypertext/hypertext/DataSources/WWW/Servers.html</a>
1993		CERN agrees to allow anyone to use Web protocol and code royalty-free.
1993		Over 200 known HTTP servers using the Web for dissemination of technological information to Europe's less favoured regions.
1994		First International WWW Conference, "Woodstock of the Web" held at CERN, Geneva (Switzerland). <a href="http://www.cern.ch/WWW94/">http://www.cern.ch/WWW94/</a>
1996-1998		Commercialization of the WWW.

Contributed by Azizullah Khan

## Popular Wireless Technologies

The wireless world continues to grow as engineers develop faster, more robust technologies to free us from wires for greater simplicity, convenience, and efficiency. From short range to long range, the wireless landscape has taken shape in our lives. A comparison of *popular technologies* is helpful when deciding which technologies to implement or products to purchase.

Wireless Network	Features
 <p><b>The Standard for Wireless Fidelity.</b></p> <p>Early 802.11 products suffered from interoperability problems because the IEEE has no provision for testing equipment for compliance with its standards. In 1999, pioneers of the new, higher speed IEEE 802.11b specification formed the Wireless Ethernet Compatibility Alliance (WECA) and branded the new technology Wi-Fi (<b>Wireless Fidelity</b>). The charter for this independent organization was to perform testing, certify interoperability of products, and to promote the technology. WECA renamed itself the <b>Wi-Fi Alliance</b> in 2003, and is now based in Austin, Texas.</p>	<p><b>Formal Name:</b> IEEE 802.11  <b>Category:</b> Local Area Network  <b>Coverage:</b> 100 meters approx.  <b>Frequency:</b> Operates in Unlicensed ISM Bands viz. 2.4 GHz, 5 GHz  <b>Data Rates:</b> 11, 54 300 Mbps  <b>Example Application:</b> WiFi Classroom</p> 
 <p>“Bluetooth” was the nickname of Harald Gormson (A.D. 940-981) – the King of Denmark. The king was known as a peacemaker who brought Christianity to Scandinavians to harmonize their beliefs with the rest of Europe. The fact was used to symbolize the need for harmony among manufacturers of WPAN devices around the world.</p>	<p><b>Formal Name:</b> IEEE 802.15  <b>Category:</b> Personal Area Network  <b>Coverage:</b> 1 to 100 meters depending on the Bluetooth Device Class.  <b>Frequency:</b> Operates in Unlicensed ISM 2.4 GHz band  <b>Data Rate:</b> Up to 3 Mbps  <b>Example Application:</b> Personal Gadgets</p> 
 <p>The <b>Worldwide Interoperable Microwave Access (WiMAX)</b> Forum is the organization dedicated to certifying the interoperability of WiMAX products. Those that pass conformance and interoperability testing achieve the “WiMAX Forum Certified” designation and can display this mark on their products and marketing materials. Some vendors claim that their equipment is “WiMAX-ready”, “WiMAX-compliant”, or “pre-WiMAX”, if they are not officially WiMAX Forum Certified.</p>	<p><b>Formal Name:</b> IEEE 802.16  <b>Category:</b> Metropolitan Area Network  <b>Coverage:</b> 50 Km approx  <b>Frequency:</b> Original 802.16 standard operated in the 10-66 GHz with line of sight environments; Newly completed 802.16a standard operates between 2 and 11 GHz and does not need line of sight.  <b>Data Rate:</b> 92 Mbps  <b>Example Application:</b> Multi-Campus University Network</p> 

Contributed by S. Kazim Naqvi

# Workshops organized

## Workshop on 'IT for All'

A two-day workshop on 'IT for All' was conducted by FTK-Centre for Information Technology, Jamia Millia Islamia during 31st October – 1st November 2007. It was sponsored by Cisco Systems India Pvt. Ltd. and was aimed at providing a common platform to the academicians, researchers, administrators and industry representatives for open discussion and exchange of ideas for taking IT to broader sections of the society. In addition to the coverage of the technical topics, the workshop aimed at bringing to the fore the applications of IT in areas of development of education, empowerment of under-privileged groups, rural development, information security concerns etc. The workshop attracted people from

The workshop was inaugurated by Dr. N. Vijayaditya, Controller of Certifying Authorities, Government of India. Dr. M.P. Narayanan, President, Centre for Science, Development and Media Studies (CSDMS) delivered the keynote address. The other dignitaries who addressed the gathering included Mr. Naimur Rahman, Director, One World South Asia, and Mr. Mukundhan Manimandiran, Regional Manager, Sales, Cisco India. Prof Syed Ismail Ahson of the Department of Computer Science, Jamia Millia Islamia presided over the programme.

The workshop was conducted through seven interactive sessions, viz. Knowledge Preservation



(L-R) Prof. Zahid H. Khan, Hony. Director, FTK-CIT, JMI, Prof. S.I. Ahson, Department of Computer Science, JMI, Dr. M.P. Narayanan, President, CSDMS, Noida, Dr. N. Vijayaditya, Controller of Certifying Authorities, Government of India, Mr. Naimur Rahman, Director, One World South Asia, New Delhi, and Mr. Mukundhan Manimandiran, Regional Manager, Sales, Cisco India.

diverse backgrounds and helped in developing a better understanding of technology and related issues amongst non-technical people and vice-versa. A total of 124 participants attended the workshop. In addition to local participants from Jamia Millia Islamia, the workshop attracted delegates from Delhi University, Aligarh Muslim University, Amity University, and the corporate sector.

and Dissemination, New Technologies for Teaching And Learning, Computers in Classrooms: Infrastructure and Applications, IT for Empowerment, Digital Identity and Security, E-Governance, Content Management and Paper Presentation.

The first session on “*Knowledge Preservation and Dissemination*” was chaired by Prof. H. Y. Siddiqui,



Dr. N. Vijayaditya, Controller of Certifying Authorities, Government of India, delivering the keynote address

Former Head, Department of Social Work, JMI. The session started with an interactive discussion on challenges of knowledge retention and its dissemination. The session was able to appraise the participants about the issues and importance of knowledge preservation in institutions of higher learning.



Mr. Mukundhan Manimandiran of Cisco India addressing the audience

The second session on “*New Technologies for Teaching and Learning*” was chaired by Syed Shahid Mahdi, Former Vice-Chancellor, Jamia Millia Islamia. During the session, the participants were introduced to the new digital technologies which can be adopted to bring innovations in teaching and learning. Mr. Venkatesh from M/s. Virtual Studio gave an interactive live demonstration on creating Virtual Classroom environments. The session was followed by a lecture by Prof. Zahid H. Khan on “Educational

Blogging”. Prof. Khan demonstrated the utility of blogs in sharing information and providing the possibility of having open discussion with the blog readers. Mr. S. Kazim Naqvi of FTK-CIT introduced the audience to Web 2.0 and its usefulness in education. This was followed by an interactive presentation by Ms. Kritika Jain of Wipro Ltd. on Educational Podcasting.

The third session was on “*Computers in Classrooms: Infrastructure and Applications*”. The session was chaired by Prof. Mohd. Akhtar Siddiqui, Dean, Faculty of Education, Jamia Millia Islamia. The focus



Mr. Naimur Rahman, Director, One World South Asia addressing the gathering

of the session was on technological innovations that could bring drastic changes in scope and reachability of educational institutions. Mr. Rupak Chauhan from America India Foundation presented case studies of the projects undertaken by AIF to take education to the farflung areas of the country. The lecture was well blended with inspiring short video documentaries demonstrating the impact of ICT in learning behavior of children. This was followed by yet another stimulating multimedia presentation by Mr. Lokesh Mehra, Cisco Systems (India) Pvt. Ltd. on 21st Century Learning Campus. The presentation enabled the participants to envision the modern “connected” campus that will provide pervasive learning environments to students.



Demonstration of a Virtual Classroom



Participants in the Workshop

The fourth session was dedicated to “*IT for Empowerment*”. It was chaired by Prof. Anjali Gandhi, Director, Sarojini Naidu Centre for Women Studies, JMI. The session started with a paper presentation on “*IT for Empowerment of Women and Underprivileged*” by Ms. Abha Khetrapal, DAV College for Girls, Haryana. This was followed by an invited talk on “*ICT for Empowerment of Women*” by Ms. Geeta Bhardwaj, One World South Asia who emphasized the potential of ICT in empowering women. The next two presentations were on “*GIS Applications for Urban Planning*” and “*GIS Applications for Rural Line Resource Management*” by Dr. Atiqur Rahman, Department of Geography, JMI.

The theme of the fifth session was “*Digital Identity and Security*” which was chaired by Dr. Khurram Mustafa, Head, Department of Computer Science, JMI. Its objective was to strengthen the understanding of ICT related security issues amongst the participants. The first talk in the session was delivered by Prof. Syed Ismail Ahson on “*Digital Identities, Trust and Privacy in e- Governance*”. Prof. Ahson highlighted the issues related to creation and management of digital identities and their utility in e-Governance. The next lecture on “*Security Issues in IT Systems*” by Mr. C.S. Bisht, Director, STQC further highlighted the security problems in IT based systems and also gave pointers to the end-users to exercise necessary precaution while working with IT based systems. This was followed by visit of the participants to the CIT labs and facilities. The visit gave them a better insight into the functioning of the centre. The participants also visited the Jamia IT Exposition 2007 (JITEX-2007) and had a first-hand interaction with various corporate representatives regarding their respective products on display.

Companies such as Cisco Systems (India) Pvt. Ltd., Hewlett Packard (India) Pvt. Ltd, Wipro Ltd, SQL Star International Ltd., Track Info Vision Ltd. participated in the JITEX. The products on display included handheld devices, such as PDAs and Smart Phones from HP, Apple and Wipro notebooks, Interactive White Boards, e-Governance software etc.

The sixth session was on “*E-Governance, Content Management and Paper Presentation*”. The session was chaired by Prof. S.I. Ahson, Department of Computer Science, JMI. To further enhance the understanding of participants on the issues of Knowledge preservation, the session started with a live presentation on “*Knowledge Content Management*” by Mr. Muzaffar Azim and Mr. Mohd. Hamid Khan of FTK-CIT. This was followed by a lecture on “*Role of IT in E-Governance and Educational Institutions Management*” by Mr. Ziauddin Khan, SQL Star International Ltd. Towards the end of the session, five papers relevant to the theme of the workshop were also presented by their respective authors. The concluding session was chaired by Prof. Zahid H. Khan, Hony. Director, FTK-Centre for Information Technology. Prof. S.I. Ahson, Coordinator, Digital Equalizer Program (DEP) distributed certificates to school children who participated in DEP being run at Jamia Middle School by America India Foundation. During the feedback session, the workshop participants admired the efforts of the workshop organizers and appreciated the quality of lectures delivered at the workshop.

Contributed by S. Kazim Naqvi and Zahid H. Khan

## Workshop on “Multimedia in Education”



L to R: Prof. Zahid H. Khan, Hony. Director, FTK-CIT; Prof. Iftekhar Ahmad, Director, MCRC; Mr. Azyz Sharafy, Washburn University, USA; Mr. M. Azim, System Analyst, CIT.

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 being made by CIT in organizing such a programme which was the need of the hour. He congratulated the faculty and technical staff of the CIT in enhancing IT skill among the faculty members of Jamia and introducing them with the use of modern technology in education.



Participants in the workshop

Mr. Azyz Sharafy gave a wonderful and technically sound hands-on training on the creation of animation using Adobe Flash software. Forty nine students, technical staff and faculty members attended the workshop.

Each participant was assigned a theme of his/her choice to create an animation. The participants were much excited after creating their animation work, especially in such a short time, which they could not learn earlier even after weeks of lectures. They desired that it would have been very beneficial had there been more time available for the hands-on training. Prof. Z. H. Khan informed the participants that he has already spoken to Mr. Azyz Sharafy to explore the possibility to spend 2-3 weeks at Jamia Millia Islamia during the summer and conduct a comprehensive workshop on Multimedia.

### Azyz Sharafy

is an Associate Professor in the Art Department, Washburn University, USA. He obtained M.A. in Art Education from Concordia University, Montreal, Canada in 1995 and M.F.A. in Creative Painting from the University of Baroda, India in 1983. Mr. Sharafy teaches Computer Graphics, Digital Animation, Electronic Art, Video Game Design, and Video FX. He also supervises BIS courses related to art. His creative works are based on clouds and smokes. His new works include food, cooking, politics and ethnic identity.

*Contributed by M. Azim*

# Extension Lectures

## Lecture on “Multimedia in Education”

by Azyz Sharafy (Washburn University, USA)



A lecture-cum-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, USA. Prof. Obiad Siddiqui from AJK-MCRC was the Chief Guest. Prof. Z. H. Khan, Hony. Director, FTK-CIT welcomed the

and animation. Emphasizing the significance of multimedia, which has brought a revolution in education, he urged the faculty members to enrich them with this latest technology in order to keep pace with developed world. Mr. Sharafy advised the students to learn multimedia techniques, which will help them in getting better job opportunities in the industry.



participants and gave an overview about the recent IT facilities created at the centre. Mr. Azyz delivered a wonderful lecture on recent advancements in the field of multimedia and showed some fascinating animation work using Adobe Flash. He emphasized the need of Computer knowledge and narrated his own case of shifting from conventional art to computer art, graphics

Mr. M. Azim, Convener of the Programme, presented the vote of thanks to the speaker, distinguished guests, faculty members and other participants. The total number of participants in this Programme was ninety-five, which included participants from Delhi University as well.

*Contributed by M. Azim*



## Lecture on “Digitization of Libraries”

by Dr. James Harry Nye (University of Chicago, USA)

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 Centre, University of Chicago. The lecture was well attended by the staff of Dr. Zakir Husain Library and departmental libraries of Jamia, students of the Library & Information Science course, and members of FTK-CIT. Dr. Gayas Makhdumi, Librarian, Dr. Zakir Husain Library presided over the program.

During the lecture, Dr. Nye deliberated on fundamental issues related to digitization of libraries. Drawing upon 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 than the content quality. This invariably leads to problems for the end users. 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. He 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. Due restrictions must be imposed on protecting all sources of knowledge such as books,







Participants in the extension lecture on "Digitization of Libraries"



microfilms, manuscripts etc. during the digitization process. He 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 the digitization. Further, enticing topics such as data mining on digital repositories in libraries may also attract students with technical backgrounds to undertake some responsibility in the library digitization process.

#### Dr. James H. Nye



is the Director of the South Asia Language and Area Center, University of Chicago, USA. Since 1984, he is also the Bibliographer for Southern Asia, Joseph Regenstein Library, University of Chicago, Illinois. Dr. Nye is also the Vice President and Editor / Publisher, Musicdata, Inc., Philadelphia, Pennsylvania since 1973. He is the recipient of several major grants, fellowships and honors. Dr. Nye knows several foreign languages, viz. Sanskrit, Hindi, Urdu, French, and German. He is the author of several books related to South Asian Books and Languages. Dr. Nye has held various distinguished memberships and professional offices, such as American Library Association (Conference panel planning committee, Asia and Africa Section, ACRL, 1989; Area Chairman for South Asia, International Relations Round Table, 1989-1993); American Oriental Society; American Pakistan Research Organization; Association for Asian Studies (Committee on South Asian Libraries and Documentation, Executive Committee, 1988-1990; Editor of South Asia Library Notes and Queries, 1984-1988); Microfilming Indian Publications Project, Steering Committee, 1989-to date; Nineteenth Century South Asia Short Title Catalog Project, Steering Committee, 1992-to date; South Asia Microform Project (Chair, 1989-1992, 1996-to date; Executive Committee, 1987-1992.

Contributed by S. Kazim Naqvi

## Lecture on 'Understanding Light'

by Dr. Zahid Husain Khan

(FTK-Centre for Information Technology, JMI)

An Extension Lecture on "Understanding Light" was delivered by Prof. Zahid H. Khan of FTK Centre for Information Technology on 19th March 2008. The lecture was arranged for students of the Faculty of Fine Arts who were particularly interested in understanding light itself which is of immense significance in art.

Prof. Khan started his lecture highlighting the significance of light in the sustenance of life on the earth and its relevance in unraveling the beauty of the universe. He also briefly mentioned about the description about light in various religious scriptures and gave interesting quotes by artists, poets and philosophers about light. Some of the quotes are:

*"In order for light to shine so brightly,  
The darkness must be there."*

*Francis Bacon*

*"There are two ways of spreading light:  
To be the candle or the mirror that reflects it."*

*Edith Wharton*

*"Ring the bells that still can ring,  
Forget your perfect offering,  
There is a crack in everything,  
That's how the light gets in."*

*Leonard Cohen*

In his lecture, Prof. Khan discussed in detail about the following mysteries of light,

- Mystery of 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

Starting with the mystery of light and darkness, Dr. Khan mentioned about the early philosophers' concept of light and darkness, who considered them as two different things. It was finally resolved by the Greek philosopher Empedocles (490-424 B.C.), who clarified that the true nature of darkness was in fact the



absence of light. Another mystery that still boggled the philosophers was: "How do we see objects and what is the role of light in seeing?" This was settled by the Arab scientist Ibn al-Haitham (ca. 965-1040), who on the basis of his experiments in optics established that we are able to see an object when particles of light emanating from it strike our eyes.

The "nature of light" was another mystery. Isaac Newton, the 17th century mathematician-physicist, believed that light had particle-like properties. However, the true nature of light was settled in 1905 by Albert Einstein who, in order to explain the photoelectric effect experiment, proposed that light has particle-like characteristics and finally the photon nature of light was established by 1920. Speed of light was another mystery that received the attention of early philosophers. It was ultimately accepted that light has finite speed, whose real measurements began in the 17th century and it was finally fixed in 1967. Einstein further postulated that the speed of light in vacuum is the fastest and that nothing can move faster than the light. Light as a carrier of information is another very interesting characteristics of light which sheds light on its own birth following creation of the universe.

Prof. Khan concluded his talk mentioning about 'laser' - the wonderful light, developed for the first time in 1960 that led to its applications in various fields of science & technology. He also discussed about the Nobel works based on lasers and their applications.

*Contributed by Zahid H. Khan*

# Training Programmes

	Training Details	Duration
1	MIS Training Programme for office staff	12 - 14 June 2007
2	Training Programme on “Fundamentals of Computer Applications” for faculty members	6 - 10 August 2007
3	Training Programme on “e-Presentation” for faculty members	20 - 24 Aug. 2007
4	Training Programme on “Adobe Presenter 6” for faculty members	3 -7 September 2007
5	Training Programme on “e-Presentation” for research scholars	20 - 25 September 2007
6	Second Training on “Fundamentals of Computer Applications” for faculty members	12 - 23 November 2007
7	Second Training Programme on “e-Presentation for faculty members	3 -7 December 2007

## MIS Training Programme for Office Staff

To facilitate the various faculties, centres, departments and offices of Jamia for using the University Management Information System (MIS) for processing admissions, a training programme was held for their staff on 12th June and 14th June 2007. The following faculties, centres, departments and offices participated in the programme:

### 12 June 2007

- Faculty of Humanities & Languages,
- Faculty of Social Sciences,
- Faculty of Natural Sciences,
- Faculty of Architecture & Ekistics,
- Centre for Physiotherapy and Rehabilitation.

### 14 June 2007

- MMAJ Academy of the Third World Studies,
- Dr. K.R. Narayanan Centre for Dalit & Minorities Studies,
- Department of Adult and Continuing Education & Extension,
- Students’ Affair Section – Proctor Office.

## Computer Training Programme for Faculty Members

FTK-Centre for Information Technology has recently conducted five IT Training Programme for the faculty members of Jamia in the months of August and September 2007.

## Training on “Fundamentals of Computer Applications”

The first Training Programme was held from 6th to 10th August 2007 on “Fundamentals of Computer Applications” in which the following topics were covered:

- Fundamental of Computers,
- MS-Word, MS- Excel,
- PowerPoint,
- Fundamental of Networking & e-Mail.

Seventeen faculty members from different departments participated in the programme.

## Training on “e-Presentation”

The second Training Programme was on “e-Presentation” was held from 20th to 24th August 2007, which was inaugurated by Prof. Iftekhar Ahmad, Director, MCRC.



Prof. Iftekhar Ahmad, Director, MCRC, inaugurating the training programme

The following topics were covered in this programme:

- PowerPoint Fundamentals,
- PowerPoint Graphics and Animation,
- Website tools,
- Educational blogging.

The number of participants in this Programme was thirteen.



Participants in the training session

The valedictory session was held on 24th September 2007 in which Prof. S. M. Sajid, Director, Academic Staff College was the chief guest. Prof. Sajid appreciated the efforts of the CIT in bringing IT awareness in the University.



Prof. S.M. Sajid, Hony. Director, Academic Staff College, JMI, distributing certificates to Participants

## Training on “Adobe Presenter 6”

The third Training Programme was held from 3rd to 7th September 2007 on the topic “Adobe Presenter 6”. It is a software tool for creating e-learning content



Prof. A.S. Kohli, Dean, Faculty of Social Sciences, JMI being introduced by Prof. Zahid H. Khan, Hony. Director, FTK-CIT.

And high quality multi-media presentation using PowerPoint. It was inaugurated by Prof. A.S. Kohli, Dean, Faculty of Social Sciences. The number of participants in this Programme was nine.

At the end of the Programme all the participants uploaded their content on the “Knowledge-Gate” server which is available to any user in the university through the intranet link, <http://knowledgegate.jmi>.

In the valedictory session of the programme, Prof. Mohd. Akhtar Siddiqui, Dean, Faculty of Education was the chief guest. He appreciated the Centre for Information Technology for taking such an important initiative and congratulated its faculty and technical staff for bringing awareness about using latest IT tools in teaching and learning among the participant teachers and introducing them with the use of modern technology in education.



Prof. M. Akhtar Siddiqui, Dean, Faculty of Education discussing with the participants

In the above training programmes, efforts were made to give maximum hands-on training during the course of the programme, which was highly appreciated by the participants. Comments posted by the participants during the session on “Educational Bblogging” could be accessed through the link, <http://zhkwaves.blogspot.com>. The Faculty members, in particular, very much appreciated the vision of Prof. Z.H. Khan, Hony. Director and appreciated the efforts of Mr. M. Azim, Training Coordinator as well as CIT faculty and technical staff.

## Second Training on “Fundamentals of Computer Applications”

The second training programme for the faculty members of Jamia on “Fundamentals of Computer Applications” was held during 12-23 November 2007. It was inaugurated by Prof. Mohd. Miyan, Hony. Director, Arjun Singh Centre for Distance and Open Learning. The following topics were covered in the training:

- Fundamental of Computers,
- MS-Word,
- MS-Excel,
- PowerPoint,
- Fundamental of Networking,
- E-Mail.

Total number of participants in this programme was 10.

## Second Training on “e-Presentation”

This was followed by the second Training Programme on “e-Presentation” for those faculty members who participated in the training on “Fundamentals of Computer Applications”. It was organized from 3rd to 7th December 2007 and was inaugurated by Prof. M.P. Sharma, Head, Department of Hindi. The Topics covered in this programme were:

- PowerPoint Fundamentals,
- PowerPoint Graphics & Animation,
- Website tools ,
- Creation of Educational Blogs,
- Adobe Presenter 6.

The total number of participants in this programme was six. At the end of the programme all the participants uploaded their content on the Intranet

Server “Knowledge-Gate”, which is available to any user in the university through the intranet link, <http://knowledgegate.jmi>.

## Computer Training for Research Scholars

FTK-Centre for Information Technology conducted a Training Programme on “e-Presentation” for the Research Scholars of Jamia from 20th to 24th August 2007. The Topics covered in this Programme were:

- PowerPoint Fundamentals,
- PowerPoint Graphics & Animation, and
- Website tools.

Ten research scholars participated in the training.



A Training Session on Adobe Connect

## Training on AdobeConnect

In 2007 the centre acquired a multimedia software, viz. “AdobeConnect” which is used for developing content and its online publishing, web conferencing and user desktop sharing. Training on the use of the products - Adobe presenter 6 and online meetings, was organized by the centre on 24th May 2007. It was attended by all the academic and technical staff of CIT and a few other faculty members of the University. The training was conducted by Mr. Venkatesh Sharma, Director, Techno-Marketing, Virtual Studio Pvt. Ltd., Noida.

*Contributed by M. Azim, S. Kazim Naqvi and Zahid H. Khan*

# Academic Activities of the CIT Staff

## Participation in Workshops and Conferences

### Zahid Husain Khan

*31 July 2007*

3rd International Conference on ICT4D: “eINDIA 2007” and “Digital Learning India 2007 Conference”, organized by the Centre for Science, Development and Media Studies (CSDMS) at held at Taj Palace Hotel, New Delhi.

*14 September 2007*

Chaired the Technical Session-V in the Workshop on “National Workshop on Software Security-2007 (NWSS-2007),” organized by the Department of Computer Science, JMI.

*18 December 2007*

“Oracle Higher Education Forum”, held at Hotel Shangri-La, Connaught Place, New Delhi.

*8-9 February 2008*

7th Annual General Meeting of One World South Asia on the theme “Climate Justice for the Realization of MDGs: Southern Perspectives and Voices”, held at Inter-Continental Hotel, Nehru Place, New Delhi.

*14 March 2008*

DAAD Network Forum India 2008, German Academic Exchange Service, New Delhi, held at Hotel Oberoi Maidens, New Delhi

*15 March 2008*

Chaired the Workshop Session VII on “Novel Techniques” in the Workshop on “Laser Spectroscopy and Nanophotonics”; Indian Institute of Technology, Delhi.

*29-31 March 2008*

International Conference & Exhibition on “Knowledge Parks”, organized by UNESCO and Qatar Foundation, at Doha, Qatar.

### S. Kazim Naqvi

*14 September 2007*

Acted as Rapporteur in the IV Technical Session in the Workshop on “National Workshop on Software Security-2007 (NWSS-2007);” organized by the Department of Computer Science, JMI.

*31 October 2007*

Acted as Rapporteur in the II Technical Session on “Knowledge Preservation and Dissemination” in the Workshop on IT for All - 2007; organized by the FTK-Centre for Information Technology, JMI.

### Muzaffar Azim

*14 September 2007*

Workshop on “National Workshop on Software Security-2007 (NWSS-2007);” organized by the Department of Computer Science, JMI.

*15 February 2008*

“E-learning for higher education”, held at Adobe Centre, Noida; organized by Adobe India.

### Jamal Akhtar Khan

*14 September 2007*

Workshop on “National Workshop on Software Security-2007 (NWSS-2007);” organized by the Department of Computer Science, JMI.

*30 January 2008*

National Seminar on Nano-Materials & Devices; organized by Department of Physics, JMI.

### Junaid Akhtar

*28 May 2008*

GNU/Linux Localization Workshop : Issues faced in Regional Language Computing; organized by Department of Computer Engineering, JMI.

## Lectures delivered

### Zahid Husain Khan

31 October 2007	Educational Blogging	Workshop on “IT for All,” organized by FTK Centre for Information Technology, JMI.
24 January 2008	Management and Governance of Universities: The Role of Information Technology	Orientation Programme for Academic Administrators, organized by the Academic Staff College, JMI.
19 March 2008	Understanding Light	Extension Lecture delivered at FTK-Centre for Information Technology, JMI.
31 March 2008	Knowledge Utilization – Challenges and Prospects	Plenary Lecture delivered at the International Conference on “Knowledge Parks,” organized by UNESCO Paris and Qatar Foundation at Doha, Qatar.

### S. Kazim Naqvi

31 October 2008	Web 2.0 in Education	Workshop on “IT for All”; organized by FTK Centre for Information Technology, JMI.
14 November 2007	RDBMS, Data Warehousing and Data Bioinformatics Mining for	Training programme on “Database and Data Mining for Bioinformatics” organized by Department of Computer Science, JMI during 14- 16 November 2007.
10 December 2007	Setting up of IEEE 802.11 based Networks	Lecture delivered for MCA V Semester students of Department of Computer Science, JMI.
14 December 2007	Introduction to Management Information systems	Lecture delivered for students of PG Diploma Course in Management of NGOs; Department of Social Work, JMI.
11 January 2008	XML for Bioinformatics	Training Programme on “Semantic Web and Ontologies in Bioinformatics” organized by Department of Computer Science, JMI during 9- 11 January 2008.

### Mohd. Wasiful Hasan

18 August 2007	Managing Databases using MS-Excel & MS-Access	Orientation Programme for Lecturers; organized by the Academic Staff College, JMI.
21 January 2008	Managing Databases using MS-Excel & MS-Access	Orientation Programme for Administrative Staff; organized by the Academic Staff College, JMI.
27-28 March 2008	Managing Databases using MS-Excel & MS-Access	Orientation Programme for Lecturers; organized by the Academic Staff College, JMI.

Compiled by Zahid H. Khan and Azizullah Khan

# New Initiatives

## Web-based e-Mail System



A new web-based e-mailing system (<http://mail.jmi.ac.in>) has been introduced since April 2007. This new mailing system has replaced the “outlook” based e-mail system (<http://jmi.ernet.in>), which was accessible only from within the University.

Upto March 2008, 678 user accounts have been created, which include accounts of all University officials, faculty members and sectional heads of offices.

## New Features in the Jamia Website

The Jamia Website, which is hosted at the domain <http://jmi.nic.in>, was launched in November 2000 with 900 pages. By December 2007, it had grown to 9,200 pages. As a new initiative, RSS Feeds facility has recently been enabled on the website. This helps the visitors to get the latest updates on specified topics on the Jamia website. In addition to this, the institutional logo has also been implemented in the URL.

Since the counter on the website was set up on 12 May 2006, there were 4,72,326 hits to the site upto 31 March 2008. In the first quarter of 2008 itself, there were 91,696 visitors to the website, thus showing an average of ~ 30,000 hits a month.

## Enhancement of Internet Bandwidth

In April 2007, a 2-Mbps (1:1) bandwidth through radio link from the Software Technology Park (STPI), Noida was set up which was enhanced further in March 2008 by adding another 2-Mbps (1:1) bandwidth through STPI. This has strengthened the already existing 2-Mbps (1:1) terrestrial leased line from ERNET India.

The utilization of the bandwidth may be monitored through Internet Traffic Analysis that can be done on yearly, weekly or daily basis. The CIT has been providing Internet facility on 24x7 basis to all users across the University.

Internet Bandwidth Growth in Jamia Millia Islamia (2003-2008)				2 Mbps Radio Link (STPI)
			2 Mbps Leased Line (ERNET)	2 Mbps Radio Link (STPI)
2 Mbps Lease Line (1:3)			2 Mbps Leased Line	
128 Kbps VSAT (NIC)				
2003-2004	2004-2005	2005-2006	2006-2007	2007-2008

## New Software procured

A Software Library was set up in FTK-CIT, which is a repository of software acquired by the centre from 1999 onwards. Till March 2007, 84 software were available in the centre. During 2007-2008, the following new software have been acquired: List of newly acquired software:

- SPSS 16 Windows Base CD
- SPSS Regression Models
- SPSS Tables
- SPSS Exact Tests
- Adobe CS3 Web Premium 3.0 Edu
- Adobe CS3 Production Premium 3.0 Edu
- Adobe Flash Pro CS3 EDU
- Adobe Photoshop Ext. CS3 EDU





- Adobe Captive EDU
- MS WIN Vista Business U/GOLPNLAE
- MS Office 2007-Edu Lic
- McAfee Antivirus
- Trend Micro Antivirus
- Cyberoam Unified Threat Management

## Campus Area Network Expansion

During 2007-2008, the University's LAN was extended to cover a number of new academic buildings and students hostels. This was the fourth phase of networking in which a total of 869 internet nodes were added. The details are given below:

### Setting up of WiFi Network

An IEEE 802.11 g/b (WiFi) based Wireless Network has recently been set up in and around the FTK-Centre for Information Technology. In addition, point-to-point wireless links have been provided connecting the FTK-Centre for Information Technology with the Faculty of Education building and the Noam Chomsky Complex through installation of RF Towers. The connectivity may be sued in case of failure of OFC links between these buildings. Moreover, for providing WiFi connectivity, Access Points were set up in the following buildings:

- FTK-Centre for Information Technology
- History & Geography
- Faculty of Humanities
- Sociology and Psychology
- Biosciences
- Noam Chomsky Complex
- BAK Girls Hostel

## The 4th phase of Networking

Building	No. of Nodes
<b>Academic Buildings</b>	
• FTK-Centre for Information Technology	211
• Noam Chomsky Complex	68
• Jamia Enclave	19
• Administration Building	04
• Department of Physics	114
• Department of Electrical Engineering	48
• Department of Mechanical Engineering	24
• Language Lab: Humanities & Languages	34
<b>Halls of Residence (Boys and Girls)</b>	
• Kellat House	48
• BR Ambedkar Hostel	72
• AM Khwaja Hostel	48
• New SRK Hostel	48
• Begum Anis Kidwai Hostel (for Girls)	24
• Aruna Asaf Ali Girls' Hostel	25
<b>Total :</b>	<b>547</b>

In networking the above buildings, 4.0 km of Optical Fiber and 23.5 km of UTP cables were utilized.

## E-Learning Initiative

Keeping in view the importance of e-Learning, the CIT has taken initiatives in creating an e- Learning environment in the University. As a first step towards this important goal, a new server running Adobe Connect has been setup at <http://KnowledgeGate.jmi>. The server is expected to be useful in creating e-Learning facility in the University.



A sample screen showing working of Adobe Breeze (Adobe Connect)

Contributed by Azizullah Khan, Jamal Akhtar Khan, Mirza Rahil Beg, Junaid Akhtar and Mohammad Hamid

# CIT in the News

Some of the events of 2007-2008 of the FTK-Centre for Information Technology got due coverage in two national newspapers; viz., The Hindu and Sahara (Urdu) and the news published therein are reproduced in the following.

The Hindu, Monday, 6 August 2007

## New IT facilities at Jamia Millia Islamia

Staff Reporter

**NEW DELHI:** The Faizruddin T. Khorakwala Centre for Information Technology at Jamia Millia Islamia here is all set to unveil its new information technology facilities that have been set up in its new building.

These facilities, comprising an internet lab, a management information system (MIS) lab, a web management

lab and a knowledge lab, will be inaugurated this Monday by the Assistant Director of General Communication and Information, UNESCO, Paris, Abdul Waheed Khan. Later Dr. Khan will also deliver a lecture on "E-learning: The future of Universities in the 21st Century".

The proceedings will be presided over by Vice-Chancellor Mushirul Hasan who will be felicitated by the centre

on being conferred Padma Shri by the Union Government early this year, said an official release on Saturday.

The Internet lab would serve the faculty members and research scholars of Jamia.

It is equipped with 36 thin-clients served by a dual processor server. In addition, six personal computers have also been provided for facilitating desktop-oriented work. Half

of the lab segment containing 30 computers has been reserved for conducting interactive IT training programmes for the university staff.

The MIS lab has been set up for facilitating University Enterprise Resource Planning (ERP) Development and Management work. Presently the ERP comprises 18 modules covering all data management process for students

as well as employees.

All website management activities of the university are performed at the web management lab. The lab is also being used for developing Urdu learning material for the web. It also hosts the software library of the centre.

The knowledge lab would be used to capture knowledge in electronic format and ensure its dissemination among students.

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دہلی، 4 ستمبر 2007 سنکل

### جامعہ ملیہ کے ٹیچرس کو انفارمیشن ٹیکنالوجی کی ٹریننگ

نئی دہلی، 3 ستمبر (ایس این بی) ایف ٹی کے سینٹر فار انفارمیشن ٹیکنالوجی جامعہ ملیہ اسلامیہ کے آئریری ڈائریکٹر پروفیسر زاہد حسین خاں کی اطلاع کے مطابق جامعہ کے پروفیسر، ریڈر اور لیکچرر وغیرہ کو کمپیوٹر سے متعلق ٹریننگ دی جا رہی ہے۔ ایک گروپ کو یہ تربیت دی جا چکی ہے۔ اس سینٹر کے پروفیسر زیڈ ایچ خان ریڈر سید کاظم نقوی، ایم عظیم اور اے یو خان جامعہ اساتذہ کو ٹریننگ دے رہے ہیں۔ پروفیسر زاہد نے بتایا کہ جامعہ کی ای-ناج کمیٹی بنانے کی بھی تجویز ہے۔ واضح ہو کہ اگلوں کے سابق وائس چانسلر اور یونیسکو میں کیو بی کیشن اور انفارمیشن کے اسٹنٹ ڈائریکٹر جنرل ڈاکٹر اے ڈبلیو خان بھی اس سینٹر کا دورہ کر کے اس کی سٹائش کر چکے ہیں۔ آج کل تقریباً 25 اساتذہ یہاں ٹریننگ حاصل کر رہے ہیں۔

Sahara (Urdu), New Delhi, 4 September 2007

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نومبر 2007ء

ہاموہیلے کے 87 ویں ایہم ہائیس کے موقع پر مختلف پروگراموں کا انعقاد کی مرکزہ شخصیات کی شرکت

## ٹیکنالوجی پر 2 روزہ ورکشاپ:

نے مختلف حوالوں سے آئی ٹی کی افادیت پر زور دیا۔ عیم الرحمن نے کہا کہ ایک عام تعلیم یافتہ شخص کے مقابلہ آئی ٹی تعلیم سے آراستہ شخص زیادہ ترقی کرنے کے ساتھ زیادہ اچھے کما سکتا ہے۔ کیونکہ اسے زیادہ مواقع بھی ملتے ہیں۔ ورکشاپ کے پہلے دن تین اجلاس منعقد کیے گئے جن میں پروفیسر ایچ ڈانی صدیقی، پروفیسر شاہد مہدی، مسزہ عطیش، پروفیسر اختر صدیقی، مسزہ بے سندر کرشنن، مسزہ ایک چوہان، مسزہ کوشل مہرا، مسزہ کریمہ وغیرہ نے آئی ٹی سے متعلق پتھر دیے۔ آج ورکشاپ کے پہلے دن بڑی تعداد میں طلباء نے حصہ لیا، ورکشاپ کل بھی جاری رہے گی۔ اس کے علاوہ 5 روزہ تعلیمی میلے میں مختلف پروگرام منعقد کیے گئے جس میں طلباء و طالبات کی بھیز دہی گئی۔

سینئر فار انٹاریشن ٹکنالوجی کے زیر اہتمام سینئر کے کانفرنس ہال میں 2 روزہ ورکشاپ کا انعقاد کیا گیا۔ جس کی صدارت پروفیسر سید اسماعیل احسن نے کی۔ جب کہ عیم الرحمن، ڈاکٹر این و سبے دتیہ، شاہد مہدی، مکندن جی مندرم، ڈاکٹر ایم پی نارائن بطور مہمان خصوصی شریک ہوئے۔ نظامت شان کاظم نقوی نے کی، ڈاکٹر این و سبے دتیہ کے ہاتھوں انٹاریشن ٹکنالوجی ورکشاپ کا افتتاح کیا گیا۔ سینئر کے ڈائریکٹر پروفیسر زاہد احسن نے تمام مہمانوں کا استقبال کرتے ہوئے کہا کہ انٹاریشن ٹکنالوجی کے بغیر زندگی بے معنی ہے اور اس کے بغیر ترقی کا کوئی بھی تصور نہیں کر سکتا ہے۔ انہوں نے کہا کہ اس کے پیش نظر نیامہ کے تمام ہونٹوں اور دیگر جگہوں پر انٹرنیٹ کی سہولتیں فراہم کی گئی ہیں۔ ڈاکٹر این و سبے دتیہ

Sahara (Urdu), New Delhi, 1 November 2007



# FAQs

## Q.1. Whom should I contact in case of any problem in my PC, Printer, UPS and passive network etc?

**Answer:** To facilitate the computer and Internet users in the University and to address their IT-related problems, a centralized IT Helpdesk facility has been set up at the FTK-Centre for Information Technology. This facility is unique and has been successfully implemented for the first time. Most probably, such facility does not exist in any other university in the country. The Support is being provided through M/s Velocis Systems Pvt. Ltd. who have been awarded the Annual Maintenance Contract by Jamia Millia Islamia. They are responsible for the following IT-related problems:

- Maintenance of Computers, Printers, UPS and other peripherals under AMC,
- Installation of Operating Systems & Antivirus Software and resolving virus related problems,
- MIS Installation,
- Network related problems and Internet connectivity,
- Maintenance of the Passive Network.



There are three options for submitting complaints to the IT Helpdesk:

Option 1: Through EPBX No. 4266

Option 2: Through email at [ithelpdesk@jmi.ac.in](mailto:ithelpdesk@jmi.ac.in)

Option 3: Through Intranet using the link,

[http://egov.jmi/eGov/user\\_login.php](http://egov.jmi/eGov/user_login.php)

You need to provide the following information to enable quick assignment of job to the relevant person/company: Equipment Brand and Model, and Warranty Status.



## Q.2. Why does Internet sometimes get slow?

**Answer:** Jamia has access to only 6-Mbps Internet bandwidth, out of which 2 Mbps ERNET India and the 4-Mbps bandwidth through radio link from STPI Noida. However, in view of the increasing demand, this bandwidth is not sufficient to cater to the needs of the University. The bandwidth may be imagined like a pipe of specific diameter that brings water in our homes. Obviously, we cannot push more water than the maximum carrying capacity of the pipe. Similarly, we have the restriction of 6 mega bits of data, which can be put on the leased line/radio link. The Internet performance varies due to changing number of users on the network; changing nature of applications they are using and also load on the external Web servers. Sometimes, it is due to connectivity problem in the leased line/radio link as well.

## Q.3. How can I open my official e-mail account?

**Answer:** You need to fill up a proforma available at the following link and forward the same to CIT for further necessary action:

[http://jmi.nic.in/Proforma/Proforma\\_ComputingEmailFacility.pdf](http://jmi.nic.in/Proforma/Proforma_ComputingEmailFacility.pdf).

You may also send an e-mail to Mr. A.U. Khan, System Analyst (Web Management) at the following address: [aziz.cit@jmi.ac.in](mailto:aziz.cit@jmi.ac.in).

**Q.4. What is the procedure for updating information related to my department or my resume on Jamia's official website?**

**Answer:** You need to send a signed hard copy and a soft copy duly forwarded by the concerned Head to Director, FTK-CIT. Softcopy may be electronically forwarded to [dir.cit@jmi.ac.in](mailto:dir.cit@jmi.ac.in), with a copy to [aziz.cit@jmi.ac.in](mailto:aziz.cit@jmi.ac.in).

**Q.5. What is the procedure for obtaining the network connectivity?**

**Answer:** There are three possibilities, viz.

- (i) The network node is already available in the room and you need to connect your PC with the same.
- (ii) Some unutilized network node is available in the near by room and you want to utilize it fruitfully.
- (iii) No network connectivity is available.

For case (i) and (ii) please send an e-mail to: [ithelpdesk@jmi.ac.in](mailto:ithelpdesk@jmi.ac.in).

For case (iii) please write a letter to the Director, FTK-CIT or e-mail to [dir.cit@jmi.ac.in](mailto:dir.cit@jmi.ac.in).

**Q.6. Why do I lose network connectivity immediately after any power fluctuation or power cut?**

**Answer:** If your PC does not reboot during the power failure, it generally means that the UPS supplying power to the switch you are connected with is out of order or has been switched off. Kindly get it checked and lodge your complaint at the IT Helpdesk as per procedure given in FAQ-1.

**Q.7. Can I shift an existing network node to another room in my department?**

**Answer:** You may send your request to the Network Engineer, CIT for replacing your existing patch cord with a longer one. However, relocation of the network node is generally avoided and the final decision about relocation is taken on the basis of the feasibility of the case.

**Q.8. How can I get my account created in the MIS?**

**Answer:** You may send an application to the Director, CIT at [dir.cit@jmi.ac.in](mailto:dir.cit@jmi.ac.in) for getting an MIS account created in your name. Alternately, you may contact the MIS Section and email to [wasif.cit@jmi.ac.in](mailto:wasif.cit@jmi.ac.in).

**Q.9. When I use MIS, why don't I get the same set of screens as other users?**

**Answer:** In order to maintain the security and confidentiality of data, the rights to access screens and reports are assigned to the users according to their area of work and responsibilities. The rights may be assigned or revoked on the recommendation of the concerned Head. If you feel that a screen or report is directly related to your work, you may request the Director, CIT to grant permission to access the rights.

**Q.10. From where should I take the help to understand the working of the MIS system?**

**Answer:** The Centre for Information Technology keeps on organizing training for the staff members of the university on different aspects of the system. You may get in touch with MIS Section of CIT at EPBX No: 4253 or 4255 to find out the details of the next MIS training program.

**Q.11. How should I protect my PC from viruses, other malware and intruder?**

**Answer:** Although a reasonable infrastructure exists at Jamia Millia Islamia to protect the users from any major threat, it still remains the responsibility of the users to follow certain basic guidelines to secure their data and programs from any unwanted problems. Given below is a small checklist which users should follow to keep away the e-threats:

- Ensure that your computer has antivirus software loaded. If not, you may request the IT Help Desk to either install Trend Micro or McAfee antivirus system. Ensure that your virus definitions are up to date.
- Keep on downloading latest patches from Microsoft servers from <http://windowsupdate.microsoft.com/>. You may also configure your machines to do it for you automatically in the background.
- Activate your PC's fire wall.
- Do not open attachments accompanied by mails from unknown sources.
- Do not supply information about your accounts, Passwords, card numbers in response to any mail or on webpage unless you are sure about the credentials of the sender/author.
- Take regular backups of your important data and programs on CDs, Pen Drives etc.

Contributed by S. Kazim Naqvi

# CIT Visitors

During the year 2007-2008, several prominent personalities visited the FTK-Centre for Information Technology, which included heads of ICT organizations, Vice-Chancellors of universities, heads of NGOs, government officials, and technocrats. A list of the visitors is given below in the chronological order.

06 August 2007

Dr. Abdul Waheed Khan

Assistant Director-General for  
Communication and Information,  
UNESCO, Paris.

“... I was very impressed by the state-of-the art facilities and services of the centre. I am sure the Centre will contribute to raising the profile of the University. Congratulations for creating a centre of excellence.”

*(Received via email dated August 14, 2007).*

Abdul Waheed Khan  
*Assistant Director-General for Communication and  
Information, UNESCO, Paris*



06 August 2007

Dr. Gulshan Rai

Executive Director, ERNET  
India, Ministry of Communications  
& Information Technology,  
Government of India, New Delhi.

20 September 2007

Dr. S. Ahmad

Vice-Chancellor, Jamia Hamdard,  
New Delhi.

“... I am indeed impressed by the set up of laboratories organized in this complex. With this kind of set up useful contributions are expected to emerge in due course of time in the field of e-learning and higher education. Efforts made are laudable.”

31 October 2007

Dr. N. Vijayaditya

Controller of Certifying Authorities,  
Government of India, New Delhi.

31 October 2007

Dr. M.P. Narayanan

President, Centre for Science,  
Development and Media Studies; President,  
GIS Development; President, All India  
Movement of Seva.



“I was indeed happy not only to be present with you for inauguration workshop on IT for All, but also to note the tremendous development in the FTK Centre for Information Technology of Jamia Millia Islamia. I am confident that with the commitment and dedication of all your staff members and students, the FTK Centre for Information Technology will soon be a centre for excellence in the field of Information Technology.”

*(Received via email dated November 23, 2007).*

01 November 2007      C.S. Bisht      Director, STQC Directorate, Department of Information Technology, Ministry of Communications & Information Technology, Government of India, New Delhi.

“It is nice to see that well maintained state-of-the art IT facility has been set up at Jamia Millia Islamia University. It will go a long way in inculcating IT culture among the users.”

20 November 2007      Dr. Mohamad Sabri      Director, Mitechsoft Technology Sdn,  
Mohd Shafi      Bhd, Malaysia.

“Very proud to see a well equipped Centre for IT.”

03 December 2007      Dr.Roshen Kishun      Director, UKZN International, University of Kwazulu, Durban, South Africa.

“I am impressed at the level at which JMI is using technology, especially IT, to serve students

1 December 2007      Dr. P. Bilimale      Director (Administration), American Institute of Indian Studies, Gurgaon.

“It is a great place to experience! This type of work is need of the hour. During the age of globalization, unless you develop like this, universities may collapse. I must congratulate the efforts of Jamia.”

18 December 2007      Haider Ali Hazarika      Judge, Central Government Industrial Tribunal cum-Labour Court, North-Eastern Region, Guwahati, Assam.

“It is a unique opportunity for me to visit and see the FTK-Centre for Information Technology of JMI. Really it is a highly sophisticated institution I have ever seen in a university.”

28 December 2007      Dr. P.V. Konnur      University Librarian and Head IT Centre, Bangalore University, Bangalore.

“I am delighted to visit the Centre for Information Technology at JMI. It is one of the state of the art facility provided by the university for its teachers and students. It is most essential that all the higher education institutions should have such a facility to enable their teachers and students empowered with IT knowledge and facilities. I appreciate the vision and initiatives of Prof. Khan for bringing life to the building. The staff of the centre deserves appreciation.”

28 December 2007

D.C. Thyagaraj

Senior Associate, Learning Systems Unit,  
International Crops Research Institute for  
Semi- Arid Tropics, Patancheru, Andhra  
Pradesh.

15 January 2008

Azyz Sharafy

Associate Professor, Art Department,  
Washburn University, USA.

“It was great to see the IT Centre in its new shape. It was also good to know that Jamia has progressed towards Information Technology. I would like to congratulate Jamia and Prof. Zahid H. Khan for such great achievement.”



04 February 2008

Dr. James H. Nye

Director, South Asia Language and Area Center,  
The University of Chicago, Chicago, USA.

“... Thank you for the tour of your excellent facilities for information technology. Your resources are far ahead of any other University I have visited in India. Congratulations on your accomplishments.”



22 February 2008

Dr. Jerry B. Farley

President, Washburn University, Topeka,  
Kansas, USA



Baili Zhang

Director, International Programs, Washburn  
University, Topeka, Kansas, USA.

“We are very impressed with the hospitality of everyone at Jamia. You were helpful and reformative. I am confident our relationship will grow. Students and faculty at both our institutions will benefit from exchanges. While we are on opposite sides of the globe, we have much in common. We are eager to enlarge our collaboration.”



# From the CIT Archives

The following two letters from the University Grants Commission on the basis of which the Computer Centre of Jamia Millia Islamia was established and later the Centre was upgraded are reproduced below. These letters are of November 20, 1984 and June 1996, respectively.

**UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI**

No. F. 17-8/81 (SR-II/T) November 20, 1984

The Registrar,  
Jamia Millia Islamia,  
Jamia Nagar,  
New Delhi - 110025.

Sub : Proposal for acquisition of a Computer Centre.

Sir,

I am directed to say that your proposal for installing a Computer at the University Campus was considered by the Sub-Committee of the UGC. Standing Committee on development of Computer facilities in Universities at its meeting held on 9.7.1984. The Committee has recommended a micro Computer 8/16 bit CPU for your University. Accordingly, I am directed to convey the approval of the University Grants Commission for installation of a micro Computer at Jamia Millia Islamia having a system configuration as indicated in the annexure, with in a total cost of Rs. 6.00 lakhs. In addition to this, the UGC will also provide assistance to the tune of Rs. 1.00 lakh for site-preparation and air-conditioning. The Computer with the suggested configuration are available indigenously.

Besides the above non-recurring grant the Commission would also provide the following recurring assistance toward staff and maintenance for a period of 5 years after which it should be the committed expenditure of the University/State Government other conditions of the grants will be the same as already laid down by the UGC for other grants under VI<sup>th</sup> Plan period.

1.	System Incharge	( 1100-1600 )	- 1
2.	Programmers	( 700-1600 )	- 1
3.	Computer Operator	( 425-700 )	- 1
4.	Technical Asstt.	( 425-700 )	- 1
5.	LDC	-	- 1
6.	Stationery and Contingence	-	- Rs. 50,000/- per annum

Further I am also to request you not to float tenders to evaluate the Computer system for your use, as the Commission is taking steps to evaluate various indigenous system and will suggest to the University the Computer system and also the list the manufacturers from whom they could procure the suitable system. The Commission will, then release the funds to the University after places the order with any of the firms suggested by it.

The receipt of this letter may please be acknowledged.

Yours faithfully,  
*S.P. BHATTAY*  
( S. P. BHATTAY )  
UNDER SECRETARY

Copy to:-

1. The Director, Computer Development, Department of Electronics, E-Wing, Pushpa Bhawan, Madangir Road, New Delhi.
2. Guard file/File No. F. 18-1/82 (SR-II/T)
3. The Secretary to the Ministry of Education & Culture, (Technical), New Delhi

( D.K. CHADHA )  
SECTION OFFICER

225723, 222255  
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Documents sent should be submitted to the  
Secretary by designation and not by name

4-11 P. 1 1/2 (1000)



भारत : मुंबिपुस्तक देवेवत : 31-65913  
GRAM-UNIGRAM75 Tel: 31-65913

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UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR NAGAR  
NEW DELHI-110 002

JUNE 1996

The Registrar,  
Jamia Millia Islamia,  
Jamia Nagar,  
New Delhi - 110 025.

Sub.: Additional staff for Computer centre.

Sir,

With reference to your letter No. s-90(III)  
GS PB No. G 52 dated 11.12.1995 on the subject cited  
above; I am directed to inform that the commission  
has sanctioned the following additional posts for  
the Computer Centre.

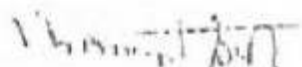
- |    |  |     |
|----|--|-----|
| 1. | System Analyst<br>(Lecturer scale)             | Two |
| 2. | Technical Asstt.<br>(uny. Tech. Asstt.- Grade) | one |
| 3. | Students (Part-Time)<br>Rs. 1200/- P.M.        | Two |

These posts will be available to the University  
for running the Computer Centre in three shifts.

The post of System Incharge can be Upgraded  
to that of Head of Computer Centre in Reader's grade  
provided the incumbent fulfils the requisite the qualification  
the Reader with Master's/Ph.D. in Computer Science,  
Similarly the university can Upgrade the post of LDC  
to that of Stenographer.

Expenditures for additional post will be  
reimbursed to Jamia Millia Islamia up to 5 years  
from the date of filling of the posts, after that whole  
expenditure will shift to non plan Allocated Budget.

yours faithfully

  
(SHARANJIT SINGH)  
Education Officer

# Who's Who @ CIT



**Zahid Husain Khan**  
*Honorary Director*  
[dir.cit@jmi.ac.in](mailto:dir.cit@jmi.ac.in)  
[zhkhan.ph@jmi.ac.in](mailto:zhkhan.ph@jmi.ac.in)

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.



**S. Kazim Naqvi**  
*Sr. System Analyst*  
[kazim.cit@jmi.ac.in](mailto:kazim.cit@jmi.ac.in)

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.



**Syed Nasir Aziz Rizvi**  
*Programmer*  
[rizvi.cit@jmi.ac.in](mailto:rizvi.cit@jmi.ac.in)

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.



**Azizullah Khan**  
*System Analyst*  
[aziz.cit@jmi.ac.in](mailto:aziz.cit@jmi.ac.in)

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.



**Muzaffar Azim**  
*System Analyst*  
[mazim.cit@jmi.ac.in](mailto:mazim.cit@jmi.ac.in)

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.



**Jamal Akhtar Khan**  
*Network Engineer*  
[jamal.cit@jmi.ac.in](mailto:jamal.cit@jmi.ac.in)

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.



**Wasiful Hasan**  
*Database Administrator*  
[wasif.cit@jmi.ac.in](mailto:wasif.cit@jmi.ac.in)

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.



**Nurul Islam**  
*Computer Operator*  
[mnislam.cit@jmi.ac.in](mailto:mnislam.cit@jmi.ac.in)

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.



**Junaid Akhtar**  
*Technical Assistant*  
[junaid.cit@jmi.ac.in](mailto:junaid.cit@jmi.ac.in)

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.



**Mohd. Hamid Khan**  
*Technical Assistant*  
[hamid.cit@jmi.ac.in](mailto:hamid.cit@jmi.ac.in)

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.



**Mirza Rahil Beg**  
*Technical Assistant*  
[mirzarahilbaig.cit@jmi.ac.in](mailto:mirzarahilbaig.cit@jmi.ac.in)

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.



**Nasir Ali Khan**  
*Data Entry Operator*  
[nasir.cit@jmi.ac.in](mailto:nasir.cit@jmi.ac.in)

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



**Syed Khalid Ali**  
*Data Entry Operator*  
[khalid.cit@jmi.ac.in](mailto:khalid.cit@jmi.ac.in)

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



**Nusrat Husain**  
*Personal Assistant*  
[nusrat.cit@jmi.ac.in](mailto:nusrat.cit@jmi.ac.in)

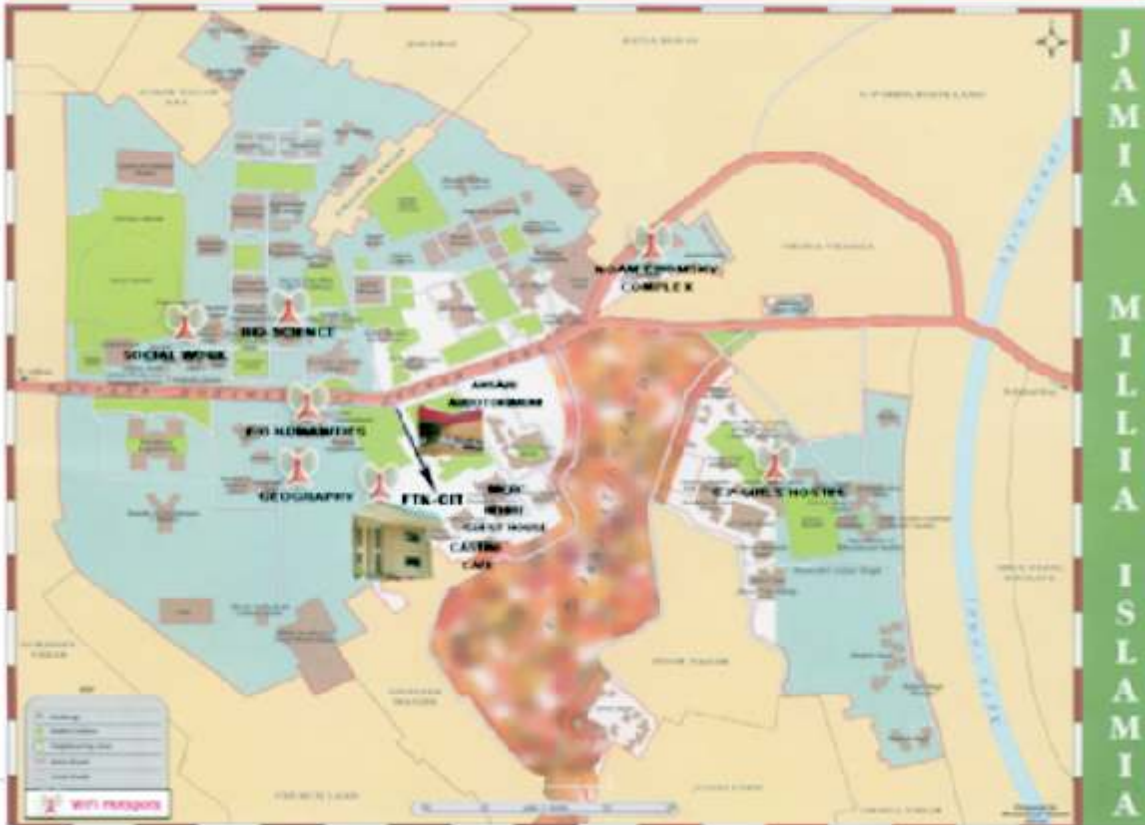
He looks after the office of the FTK-CIT in addition to performing his duties as Personal Assistant, maintains all office records and stores, and carries out all purchase-related work.

# *While going to the press*

The FTK-Centre for Information Technology has made further achievements and carried out various IT-related activities from April 2008 onwards, which are summarized below:

- ★ The first issue of the quarterly newsletter of the Centre was published online in April 2008 and its second issue appeared in August 2008.
- ★ A Workshop on Web 2.0 in Education was organized on 4th November 2008.
- ★ The Internet bandwidth was enhanced from 6 Mbps to 8 Mbps.
- ★ Internet nodes in the campus were increased from 2600 to 2700.
- ★ WiFi connectivity was established in additional five buildings of the University.
- ★ For empowerment of Jamia employees, an e-Governance service was launched in November 2008.
- ★ The MIS Stores Module for IT-related purchases was operationalized.

## Wi-Fi facility across the Campus



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Tel: +91(11)26985978 (Direct)  
EPBX: +91-11-26981717 - Ext 4250, 4251  
Fax: +91(11)26987707  
Email: [dir.cit@jmi.ac.in](mailto:dir.cit@jmi.ac.in)  
Website: <http://jmi.nic.in>