

COMPUTER CENTRE

Major Activities and Achievements

During the last one year, Delhi University Computer Centre (DUCC) continued to strengthen ICT infrastructure and services at University of Delhi. As an epicentre of all the IT related resources, DUCC served the

Internet, Datacentre, software and other requirements of the University. Network was planned and maintained to

ensure maximum availability of network and services running on it. All the associated colleges continue to use

Authentication Services to facilitate faculty members and students to use Internet Services in compliance with

Department of Telecommunications guidelines. Wi-Fi system installed at colleges enables internet access to all

students across a variety of devices like laptop, smart phones, tablets etc. The Wi-Fi facility at colleges has enabled

the students to access internet provided by the University and share the knowledge among them.

Apart from day-to-day activities related to Network, website, training etc., various new initiatives were

taken by Delhi University Computer Centre to meet the current requirement of the University ICT. Some major

projects currently running and maintained by DUCC and new initiatives are as follows:

Undergraduate Admissions (Merit Based) 2017-18:

DUCC was entrusted with the responsibility of developing the online Registration Portal for UG Admissions (2017-

18) including the college portal for admissions. DUCC successfully implemented the same within a limited period.

The salient features of the UG Admission portal are:

- More than 3 Lakh applicants registered successfully on Admission Portal.
- More than 2.2 Lakh applicants successfully paid the Registration Fee.
- More than 1 Lakh transaction handled of applicants who paid the admission fee.
- Whole setup was designed as per best practices, in such a way that all resources were fully utilized and

hardly any downtime was observed.

- The portal was fully operational even on peak loads.
- The portal was accessible even from outside DU Network.
- Sports category evaluation was fully automated.
- Bank Details were taken from Applicants for refund purposes.
- Female Applicants from Delhi were automatically registered for NCWEB if they selected B.A.

(Programme) or B.Com in regular stream.

- No charges were taken from applicant if registration fee is paid through Net banking or Debit Card.
- Minimum size of the photograph, signature and documents was prescribed to ensure clarity of uploaded

documents.

- Admission fee of the applicant was adjusted if he/she withdrawn from one college and took admission in

other college.

- All the payments made by the Applicant were shown on the Dashboard of Applicant.
- Executive Summary was provided to each college for finalizing the cut off.
- Admission summary (Course Wise, Category Wise, cut off wise) was provided to college on its dashboard for ready reference.

Appropriate alerts were generated if the applicant was approved in some college and other college tries to

admit him/her.

- Cut offs were taken online from colleges.
- Cut offs were approved by Registrar's office online.
- All NCWEB admissions were carried out online under the admission policy framework of NCWEB.
- API was developed for Minority Colleges to verify if the fee was paid by applicant on the admission portal.

Bandwidth of 10 Gbps:

The bandwidth utilization at both North & South Campus and associated colleges was utilized to its full capacity.

The National Knowledge Network (NKN) continued to provide 10 Gbps bandwidth at was requested to

accommodate the additional bandwidth requirements. The same resulted in increase of bandwidth from 2 Gbps to 10

Gbps at North Campus. University of Delhi is among the highest utilizer of NKN resources across the country. The

increase in bandwidth at South Campus will also be taken up with NKN in near future.

Campus wide Wi-Fi at both North and South Campuses with AAA:

Campus-wide Wi-Fi was successfully launched and running across both North and South Campus. The service is

available to faculty, student and staff of the University with individual login and password. The Wi-Fi setup has

been built to have Authentication, Authorization, and Accounting (AAA) at individual internet user level. More than

6,000 users already availed the Campus Wi-Fi facility and the count is increasing day by day. Logging of Internet

traffic:

As per the guidelines of Department of Telecommunications, any organization needs to maintain the internet traffic

logs for the previous 6 months. DUCC continues to use the logging mechanism wherein all the network traffic

including the Wi-Fi traffic is being logged for individual users.

Wi-Fi Network Monitoring:

In order to proactively monitor the Wi-Fi network, the monitoring hardware is put in place which can help in

proactive troubleshooting and help in maintaining maximum uptime for Wi-Fi Network.

College Network:

The bandwidth of 100 Mbps continued for all the off campus colleges. In view of the requirement to maintain the

maximum uptime of internet services, DUCC has taken strong steps to ensure that the college VPN connectivity

should be in ring architecture. In case of disruption of VPN connectivity from one side the network remains

available from other side of ring.

Co-location server hosting for critical applications:

Examination

Online UG Admission

Online PG admission

Online Recruitment

BMS admission

Virtual Class Room

Cluster Innovation Centre

DU Community Radio

Library Software (St. Stephens College)

Delhi University Library System

Braille Library

School of Open learning

Virtual Learning Environment (VLE)

Enrollment Data Management System (EDMS)

DUCC carried out live Webcasting and hosted Videos:

Annual Convocation

President of India Address, Parliament and Policy Making

Archives of various past events

E-Journals, Websites and Department websites launched:

The Delhi University Journal of Creative Writing – DU Vidha, Volume 2

<http://journals.du.ac.in/creative/index.html>

The Delhi University Journal of Undergraduate Research and Innovation

Volume 1 Issue 1 & Volume 1 Issue 2 <http://journals.du.ac.in/ugresearch/>

Kabul Project <http://kabulproject.du.ac.in/>

Department of Botany – <http://botany.du.ac.in>

NAAC Report – <http://naac.du.ac.in>

Alumni Edition 2 – <http://alumni.du.ac.in>

SBI Payment Gateway Integrated:

Central Placement Cell – Student Registration Payment

Postgraduate Fees Collection

Misc Fee Collection

Hostel Fee etc.

Campus Wide Software:

DUCC continue to provide the following Network License Software for the use of DU faculty, staff, research

scholars, PG & UG Students:

SPSS V 22 + AMOS (Windows 32 bit & 64 bit, Unix and Mac platform)

Matlab R2014b (Windows 32 bit & 64 bit, Unix and Mac platform)

SigmaPlot 12 (for Windows Only)

Jaws Server (for Windows Only)

Training Conducted at DUCC:

DUCC has organized various training programmes for throughout the year for the faculty, staff, Research Scholars,

PG students, college system administrator/ technical staff covering all the verticals starting from the basic to

advance courses in Excel, Access, SPSS, Mathematica, Matlab, Web Designing which are useful for teaching,

research tools, and project taken by the students.

Regular Activities:

Apart from new initiatives, Delhi University Computer Centre (DUCC) designs and administers India's biggest

educational IT network feeding more than 15000 devices through wired network and more than 1.5 Lakh users over

Wi-Fi for Internet needs as on date through National Knowledge Network (NKN).

DUCC is managing the Delhi University's core IT infrastructure comprising of:

Data Centre with more than 100 active devices including Servers, Core switches, Zonal switches, Routers,

UTM devices, Storage etc.

Wired equipment comprising of more than 400 network switches (and increasing)

Wi-Fi equipment comprising of 100+ switches and 500 wireless access points

fiber optic cable network of 43 kilometers laid across both campuses

Servers hosting different applications like College and Department website along with the University main

website, DNS, Proxy, Email, Payment Gateway, License and Webcast server.

Colocation servers for Examination, Administration, Finance, School of Open Learning, Library catalogue and

Braille software etc.

DUCC is also actively managing and providing Content for the DU website, Technical Support & Regular updates

on DU Facebook Page, Web Hosting services for Colleges / Departments / Centres, Faculty Members Web Hosting

Services. Apart from Network and Website designing and maintenance, DUCC has successfully provided technical

support and hosted videos for events such as Public Lecture series, Studio lectures, Gyanodya, Annual Convocation,

Antardhvani etc.

DUCC has more than 1,500 members comprising of PG students, Research Scholars, Faculty members and staff

who avail internet and printing services free of cost. The future plans of DUCC include virtually combining the

Campus and College Wi-Fi so that users remain connected to internet irrespective of the location. This will ensure

seamless connectivity for end users.