I.T.Center

1. **Name of the Center:** Information Technology Centre (I.T. Center)
2. **Year of Establishment :** Established in year 2000
3. **Vision**

   To be in forefront in country and provide state of Art infrastructure and technologies to facilitate Networking and Internet services and solutions for Teaching, Research and Governance goals of the University.

4. **Mission:**

   Uninterrupted 24*7 Internet and Wi-Fi Connectivity to three campuses of the University for availability of Web-resources for research, teaching, and administration. Global reflection of University services to the community through University Portal.

5. **Objectives**:
   - Global reflection of University services to the community through University Portal.
   - High quality of research, teaching and 24*7 learning environment

6. **Location:** Central Library Building,

   Takshashila Campus,

   Devi Ahilya Vishwavudyalaya,

   Khandwa Road, Indore.

7. **IT Center Staff Organisation and Architecture**
   1. Head, IT Centre (1),
   2. Network Administrator (1 Vacant)**,**
   3. System Administrator (1),
   4. Software Engineer (1 Vacant),
   5. Web Designer (1),
   6. Programmer (1 Vacant) ,
   7. Assistant Programmer (2, One Post Vacant),
   8. Jr. Network Administrator (1),

9. L.D.C. (1),
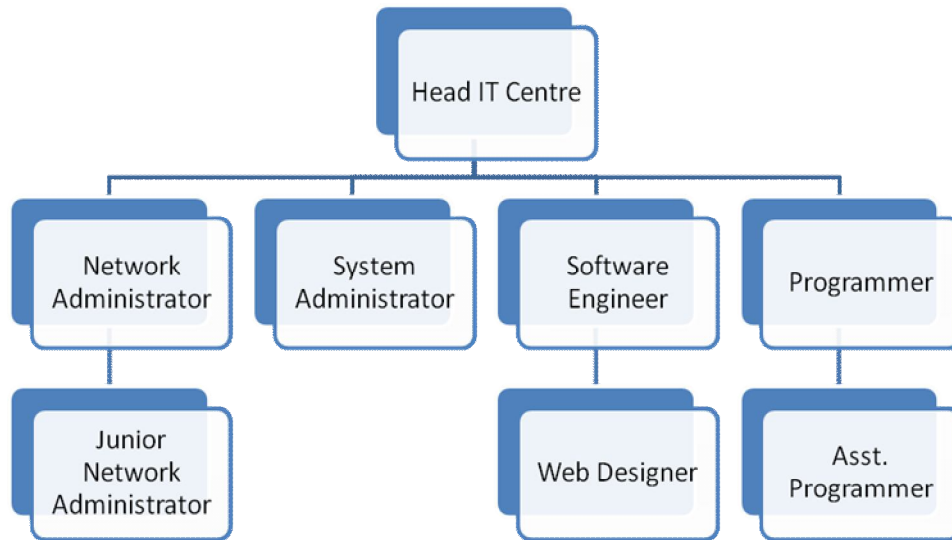
10. IV Class Staff (1).

Organizational Structure:

Fig. 1 Organization of IT Center Staff

8 Financial Resources :

a. Government Grant-Nil,

b. UGC Plan Grant XI Plan - 50 Lakh for Computer and I.T. Centre.

c. Self Generated from User fees : 85 Lakh

9. **Campus Network Organisation, Architecture and Network Maps DAVV Campus Network**

Following statistics would provide an idea of the infrastructure created and its dimensions. There are very few universities in the country having this kind of a infrastructure, first one in M.P. and many surrounding states. The University is perhaps first to install such a large optical Fiber base I.T. infrastructure in year 1999.

- Presently 44 Departments interconnected using extended star topology.
- 1500 Nodes.

2

- 90 Switches**,** **(**HP-7500(1), HP-2510(10), 3COM 66, D-link 19, Netgear 5,).
- Internet Access through National Knowledge Network (NKN) 1Gbps link.
- Fiber Optic Cable length (Backbone): 10 Kilometer.
- UTP Cable length (Copper Wires, within the departments): Approx. 100 KM
- 100/1000 Mbps internal bandwidth.
- Structured cabling.
- Network Management Software.
- Network Security by Unified Threat Management (UTM) Devices(Firewall)
- Invested Rs. 4.5 Crore mostly from self finance resources,
- More than 8000 users

10. **Operational policies** (Staff Working hours, Maintenance Schedules)

Total working hours divided in 3 Shifts.

Shift Timings:

(i) 8.30 A.M. to 3.30 P.M.

(ii) 10.30 A.M. to 5.30 P.M.

(iii) 2.30 P.M. to 8.30 P.M and

All Sundays and Holidays (except national holidays) 9.00 A.M. to 2.00 P.M.

All Servers operational on 24X7 basis. In emergency IT Centre staff is

available for Network & Server service support 24*7 basis.

Maintenance Schedules:
- Campus Network Maintenance on AMC basis.
- Server & Core Connectivity maintenance schedule daily basis, four persons dedicated.
- Wi-Fi Network- Newly established, one person dedicated.
- Hostel LAN with Wi-Fi connectivity was establised in 2006. Its maintenance contract was done on quarterly basis. Presently undergoing upgradation process under NMEICT University LAN scheme.

- Preventive maintainance of Computers and Allied equipments by the agency providing Annual Maintenance Contract .
- Maintenance of generator and UPS used as power backup on AMC basis.
- Breakdown maintainance within 24 hours of breakdown.

11. Human Resources:

A description about required and existent operational and administrative staff along with their qualification, certifications (for example, CISCO, Microsoft or Sun Micro or Web-designer or other) and minimum experience requirements for each one.

1.   Faculty (Head, IT Centre)

S No	Name	Qualifications	Experience (June-2013)
1	Dr. Mrs. Vrinda Tokekar	M.E.(Computer Engg.), Ph.D. (Computer Engg.)	27 Years

2. Existing Staff:

Sr. No.	Name	Qualifications	Designation	Experience (June-2013)
01	Mr.Rajesh Yadav	M.C.A., M.B.A.	System Administrator	17 Years
02	Mr. Ravindra Sharma	M.Sc.(I.T), M.B.A.	Asstt. Computer Programmer	18 years
03	Mr.Nandkishore Buwade	M.C.A.	Web Designer	4 Yrs.
04	Mr. Jaideep Sisodiya	M.Sc. (Elex.), CCNA Certified	Jr. Network Administrator	4 Yrs.
05	Mr. Hitendra Yadav	12th ,DCA	L.D.C.	18 Yrs.

06	Mr. Manohar Lal Virani	8th	IV Class	11 yrs.

Staff Required:

S.No.	Designation	Qualification	Experience (June-2013)
1	Senior Network Adminiator	Qualification:B.E(CS/IT/ Elex)/B.Tech(CS/Elex)/ MCA / MSC(CS/IT/Elex.),Desired : MCSE/CCNA/Red Hat Certification	3 Years
2	Network Administrator	Qualification:B.E(CS/IT /Elex)/B.Tech(CS/ITElex) /MCA/ MSC(CS/IT/Elex.), Desired: MCSE/CCNA/Red Hat Certification	3 Years
3	Programmer	Qualification: B.E. (CS/IT) / B.Tech(CS/IT) / MCA/MSC(CS/IT), Desired: Micro Soft/Sun(Java)/Oracle certification	2 years
4	Lab Instructor	Graduation in CS/IT or BCA or PGDCA Desired: Experience in installation of operating systems, basic trouble shooting of hardware, data entry, knowledge of MS-Office, Managing computer.	2 years
5	IV Class	VIII Pass	2 years

SSR of IT Centre

12. IT and ICT Infrastructure and Resources: Relevant Maps and a description
for the followings:

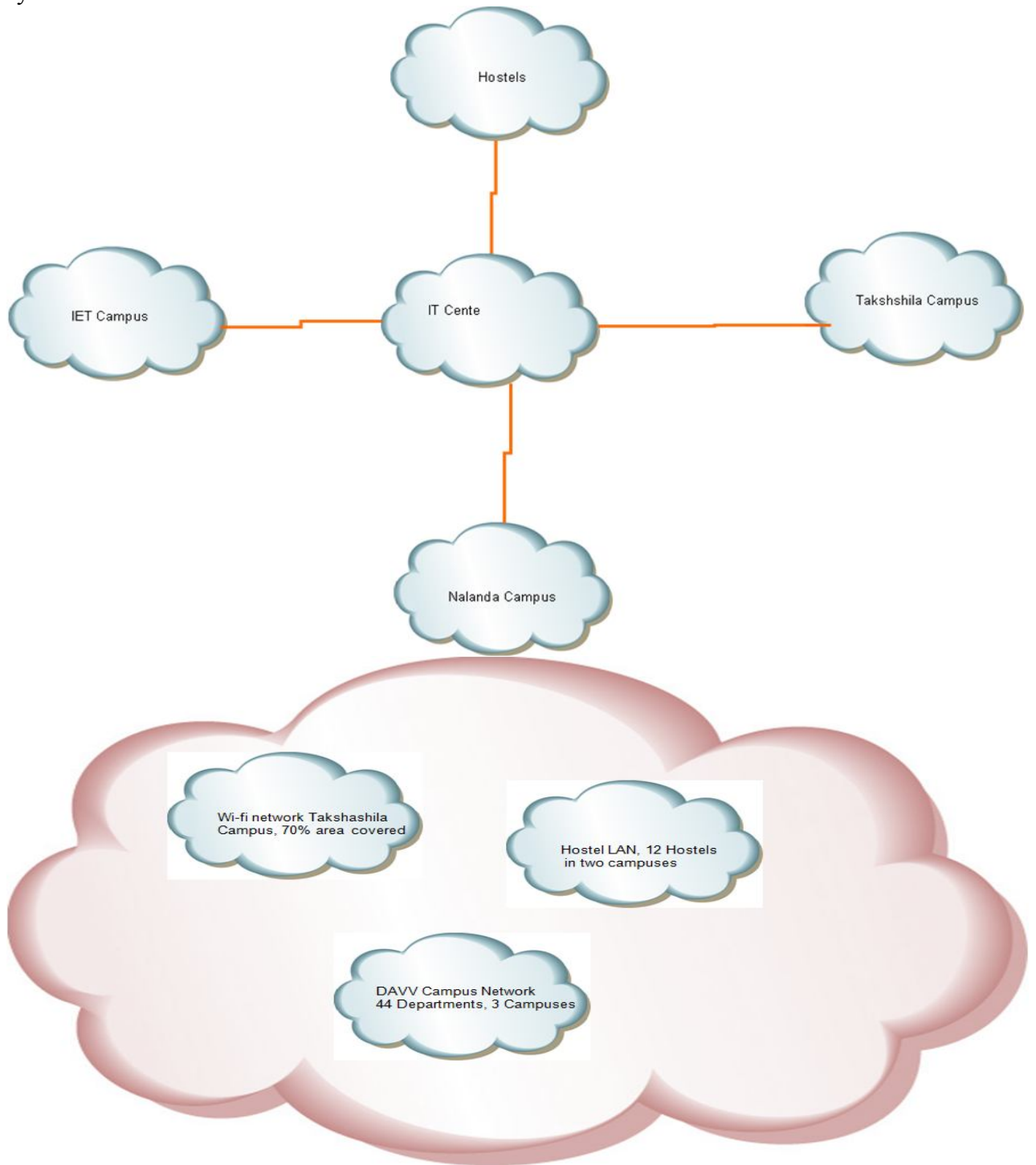Numbers, installation details and features of Servers and other
systems:

Fig. DAVV ICT Infrastructure managed by IT Centre

- Total 66 Personal Computers for I.T. Centre Lab and Administrative work.
  Servers:-

  - Mail Server
  - Web server
  - DNS server
  - Bandwidth Monitoring Server
  - LDAP Server
  - Campus Wide DHCP Server
  - Student- ID Server
  - Result Server
  - EDU Research Server
  - Library Server
  - Enterprise Antivirus Server (Trend Micro)
  - Caching DNS server

Mail Server :

Hardware Configuration: - AMD Opteron(tm) Processor 250, CPU MHz: 2393.207, RAM 8 GB

Operation system: -Linux kernel version 2.6.18-120.el5PA (Red Hat Enterprise 6)

Registered users 800

Outgoing mail server user SMTP (Simple mail transfer protocol)

Incoming mail: - IMAP (Internet message access protocol) DOVCOTT

Web based mail client is (Squirrel mail)

Web Server :

Hardware configuration: - Intel(R) Xeon(TM) MP CPU 3.16GHz, RAM 4 Gb,

Operating system: - Linux version 2.6.32-131.0.15.el6.x86_64 (Red Hat 4.4.4-13)

Httpd web application installed, php ,mysql ,php-myadmin

SSR of IT Centre

LDAP Server :

Hardware Configuration: - IBM -160 Dual core configuration, CPU speed Intel(R) **Xeon(TM)** CPU 3.20GHz, RAM 2 GB.

Operating System: Centos -6 , Linux version 2.6.18-274.18.1.el5. **Application Installed**: Open-ldap client and server, php , phpmyadmin , httpd .

Antivirus Server:

Hardware configuration: - IBM -160 , CPU speed Intel(R) Xeon(TM) CPU 3.20GHz, RAM 2 GB

 Operating System : - Windows Server -2012.

Application : - Trend Micro Smart Scan enterprise additions .

Caching Name Server :

Hardware Configuration: - Wipro - , Intel(R) Xeon(TM) CPU 3.20GHz, RAM 2 GB

Operating System: - Suse Enterprise – 9, Linux version 2.6.5-7.97-smp

Application: DNS Bind .

Result Server :

Hardware Configuration: - HP ML -250 , 2 GB Ram , Intel xeon 3.2 Ghz.

Operating System: Windows – 2003.

Application : - Java , Oracle-10g

 DHCP Server :

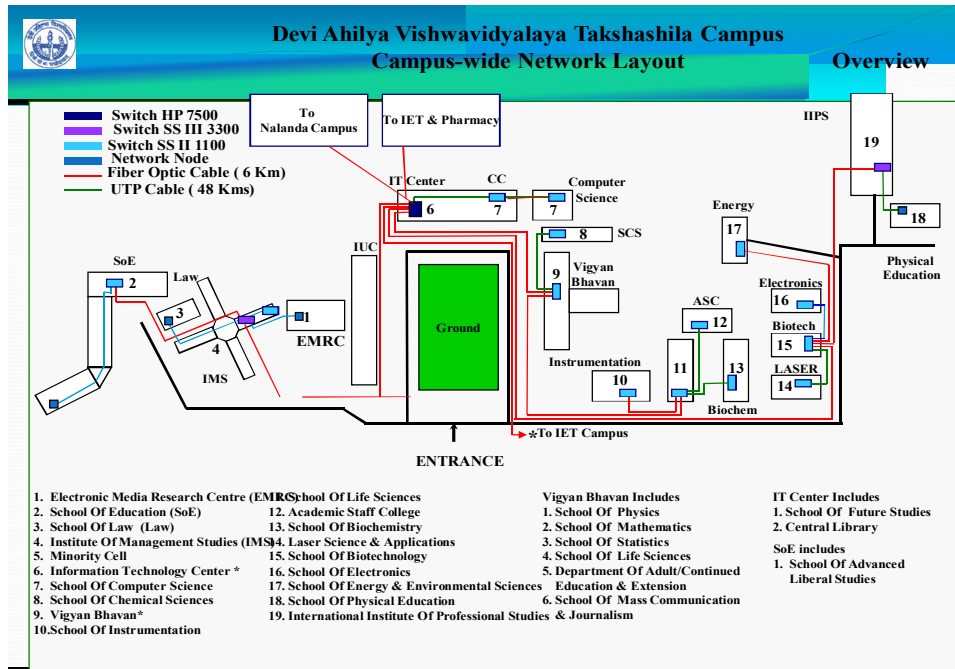**Hardware Configuration**: - Intel i-5 Processor with 8 GB RAM
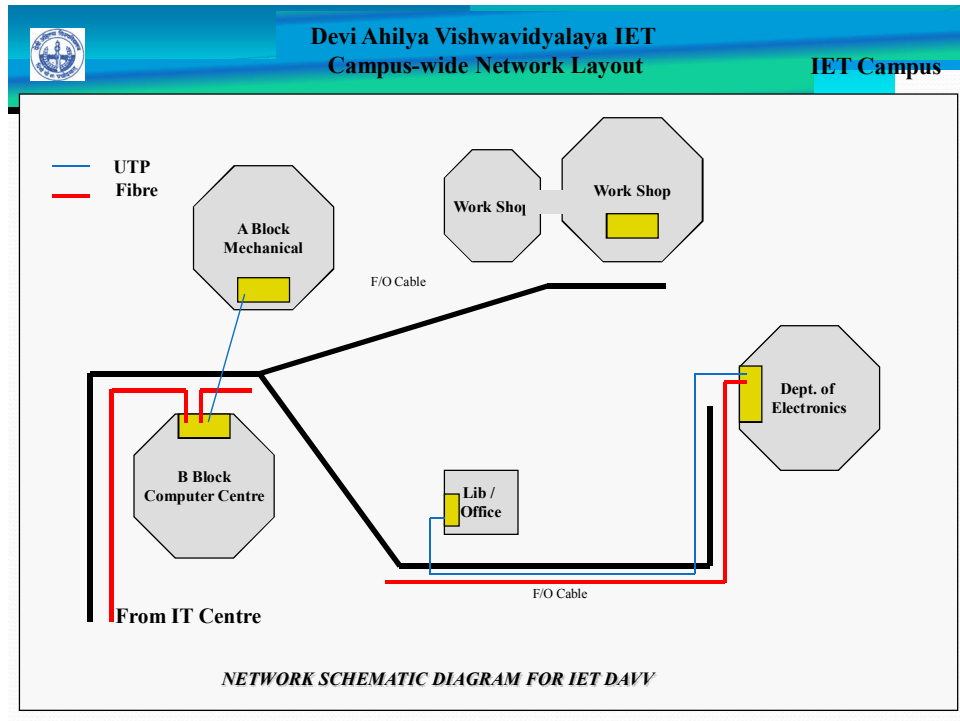
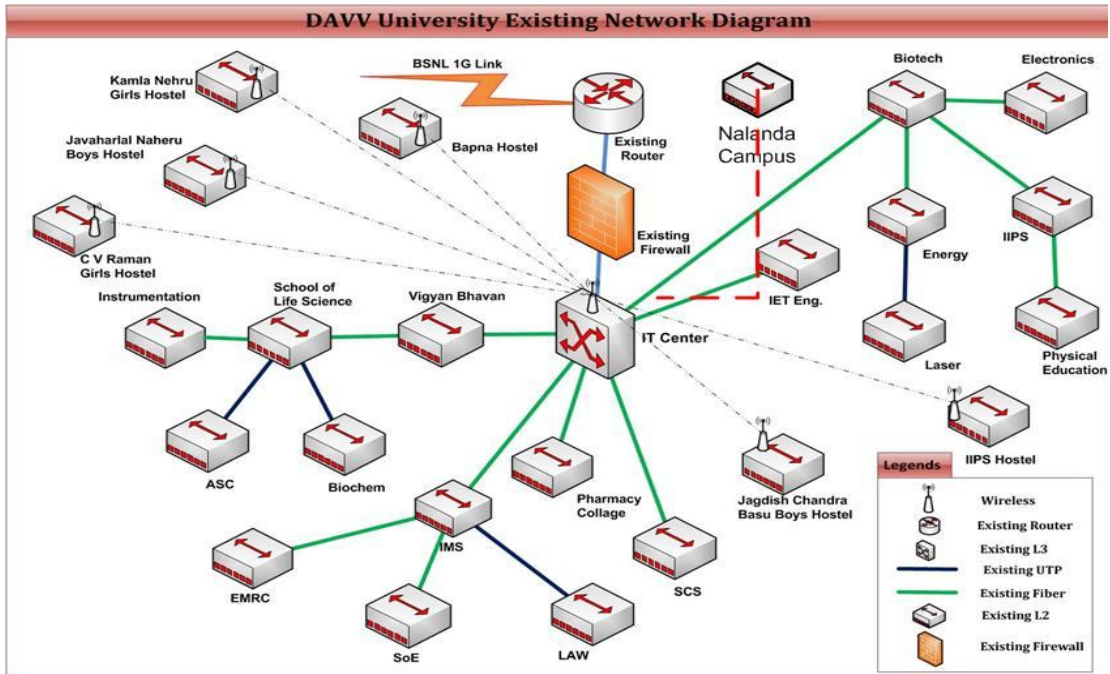**Operating System**: - Windows Server -2008.
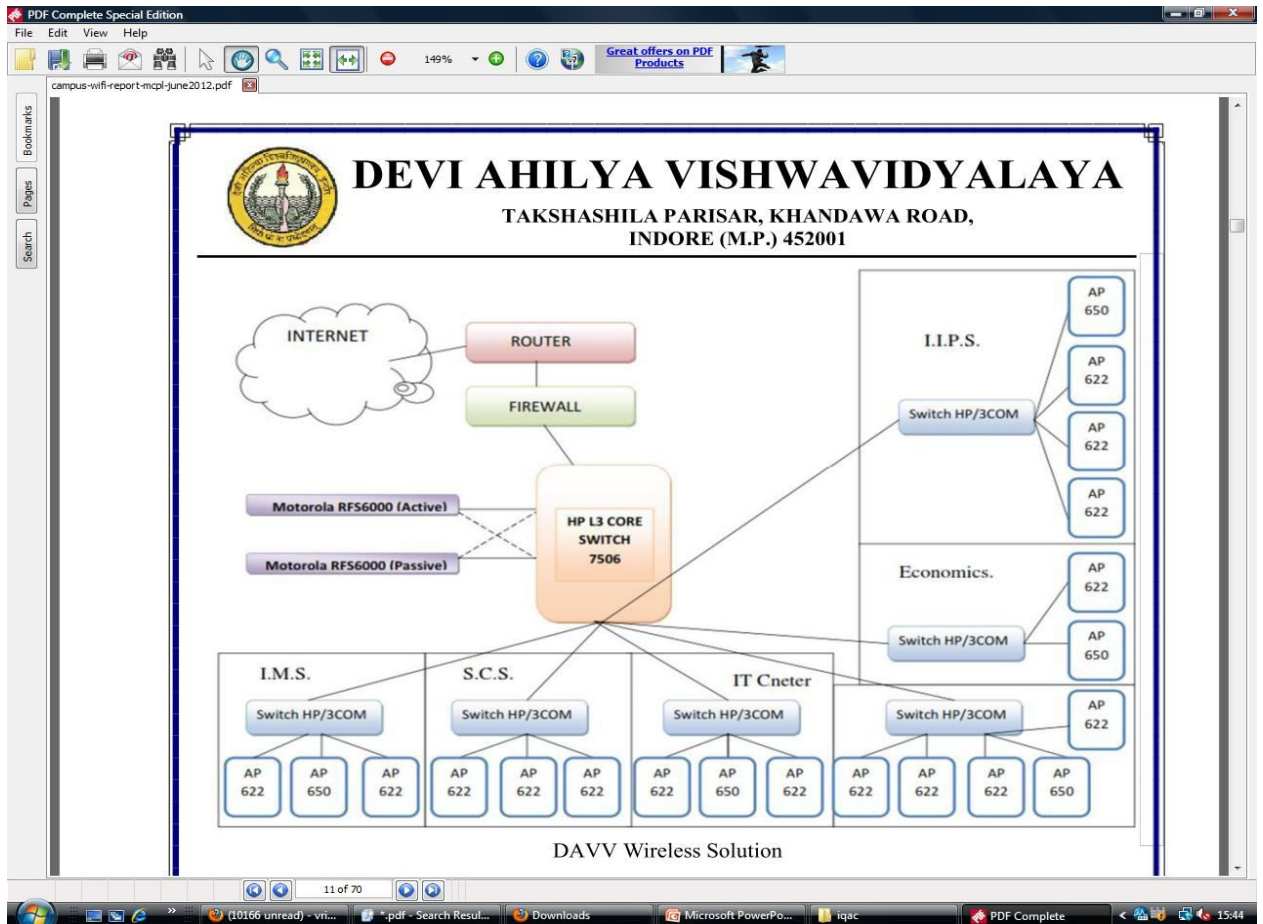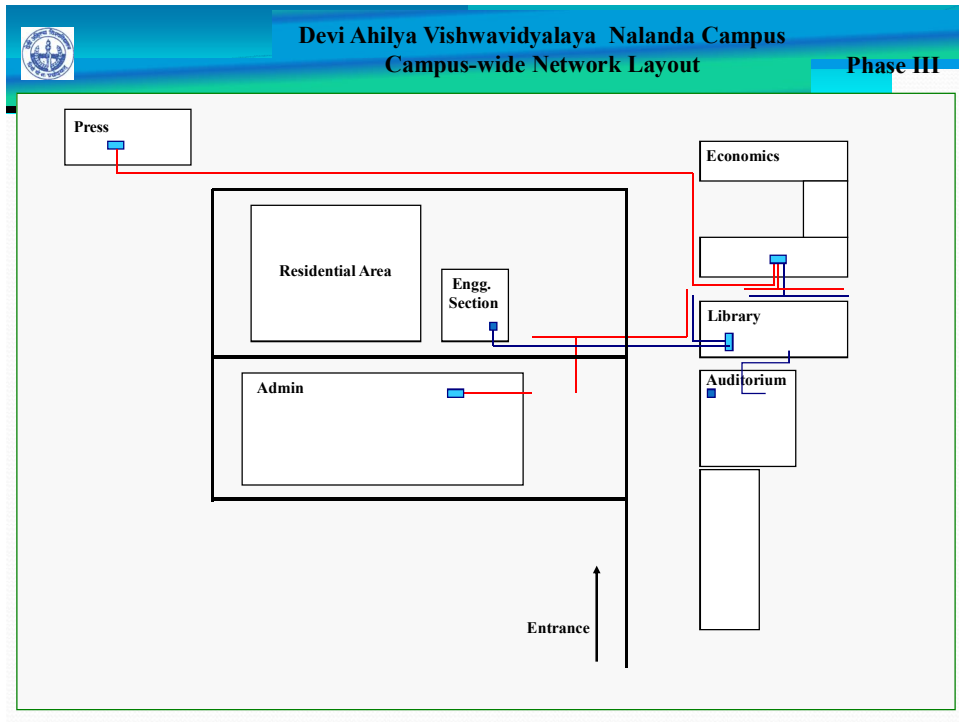
Application: - DHCP server.

Existing Network of the University:

- At present Devi Ahilya Vishwavidyalaya has very large network connectivity. BSNL 1 Gbps link is terminated in Juniper M10i Router.

- Numbers, installation details and features of Network infrastructure
  - Core switch (s): 1
  - Edge Switches:90

- Routers: Routers (Cisco -1700)- 7, (Cisco-2800)- 1
  - Wi-Fi Routers -13 (for Hostel Wi-Fi network, currently undergoing up gradation)
  - UTM/IDS: 02 (Cisco, Fortigate) Cyberoam (under purchase)

- Campus wide Wi-Fi network
  - Motorola Controller (Motorola RFS-6000) 2 Nos.
  - Indoor Access Point (Motorola AP-622) 36 Nos.
  - Outdoor Access Point (Motorola AP-650) 6 Nos.

- Firewall: Firewall Cisco ASA5520, Fortigate 100-D UTM, Cyberoam 1000i (under purchase)

- Network Storage : 1.2 TB Storage (Linux based)
  - Numbers, sources, installation details and features Software
    - Network management   : Inbuilt with Switch
    - Antivirus: Trend Micro Advance Version11.6 with 800 users
    - IDS: Inbuilt in UTM
    - Bandwidth Manager: Open source
  - Numbers, sources, installation details and features of Peripherals
    - Printers:03, Scanners:03, Others
  - Numbers, sources, installation details and features of Power Backup and Air conditioning

- UPS:
  - 10 KVA, 8 hrs. Backup
  - 05 KVA, 2 hrs. Backup
  - 15 KVA, 8 hrs. Backup

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- Generator:01(65 KVA diesel generator for reliable backup power)

- Air Conditioners: Split A.C. 1.5 Ton - 07, Window A.C. 1.5 Ton – 05

Devi Ahilya Vishwavidyalaya Takshashila Campus
Campus-wide Network Layout   **Overview**

Switch HP 7500
Switch SS III 3300
Switch SS II 1100
Network Node
Fiber Optic Cable (6 Km)
UTP Cable (48 Kms)

1. Electronic Media Research Centre (EMRC) 11. School Of Life Sciences
2. School Of Education (SoE)   12. Academic Staff College
3. School Of Law (Law)   13. School Of Biochemistry
4. Institute Of Management Studies (IMS)   14. Laser Science & Applications
5. Minority Cell   15. School Of Biotechnology
6. Information Technology Center *   16. School Of Electronics
7. School Of Computer Science   17. School Of Energy & Environmental Sciences
8. School Of Chemical Sciences   18. School Of Physical Education
9. Vigyan Bhavan*   19. International Institute Of Professional Studies
10.School Of Instrumentation

Vigyan Bhavan Includes
1. School Of Physics
2. School Of Mathematics
3. School Of Statistics
4. School Of Life Sciences
5. Department Of Adult/Continued Education & Extension
6. School Of Mass Communication & Journalism

IT Center Includes
1. School Of Future Studies
2. Central Library

SoE includes
1. School Of Advanced Liberal Studies

DAVV University Existing Network Diagram

Devi Ahilya Vishwavidyalaya IET
Campus-wide Network Layout   **IET Campus**

NETWORK SCHEMATIC DIAGRAM FOR IET DAVV

SSR of IT Centre

Devi Ahilya Vishwavidyalaya Nalanda Campus
Campus-wide Network Layout   **Phase III**

Press

Economics

Residential Area

Engg. Section

Library

Admin

Auditorium

Entrance

PDF Complete Special Edition

File   Edit   View   Help

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campus-wifi-report-mcpl-june2012.pdf

DEVI AHILYA VISHWAVIDYALAYA

TAKSHASHILA PARISAR, KHANDAWA ROAD,
INDORE (M.P.) 452001

INTERNET

ROUTER

FIREWALL

Motorola RFS6000 (Active)

Motorola RFS6000 (Passive)

HP L3 CORE SWITCH 7506

I.I.P.S.

Switch HP/3COM

AP 650
AP 622
AP 622
AP 622

Economics.

Switch HP/3COM

AP 622
AP 650

I.M.S.

Switch HP/3COM

AP 622
AP 650
AP 622

S.C.S.

Switch HP/3COM

AP 622
AP 622
AP 622

IT Cneter

Switch HP/3COM

AP 622
AP 650
AP 622

Switch HP/3COM

AP 622
AP 622
AP 622
AP 650

DAVV Wireless Solution

11 of 70

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12

SSR of IT Centre

13. Existance of Annual Maintenance Contract and Plan

IT centre is providing network services to University. There is sufficient budget provision for annual maintenance of network and compters. Details as under :

Year	Amount
Year 2008-09 :	Rs. 5,46,044=00
Year 2009-10 :	Rs. 2,51,507=00
Year 2010-11:	Rs. 5,87,101=00
Year 2011-12:	Rs. 5,60,438=00
Year 2012-13:	Rs. 3,41,567=00

14. Existence of Plan for University Information System (UNIS)

- Development and implementation of University Automation system is under progress. University has placed order to m/s Wipro Infotech for Rs. 46 Lakh.

- Several portal based online services are available for students. A link to online services is provided on University website.

15. Indicators for Quality rating, sustenance and enhancement

Following description is suggested for inclusion to function as indicators for Quality rating, sustenance and enhancement:

(i) **User Registration Service**: Number of User Registrations (Faculty, students, staff and others) :

    i. **Number of Faculty & Staff Registration**- 1000 Users

    ii. **Student**: 7000 Users

(ii)   **Authentication Service**: Existence of a system for permitting only genuine users to use centre facilities and Internet and Campus-wide Wi-Fi service. Also developed and operational LDAP single sign-on authetication system since 2002.

(iii)   **Services for the Users**

- **Existence of Portal and Website service** (www.dauniv.ac.in)

    For example,

    - University or College Portal for Faculty, Students, Councils, Committees, Administrations, Heads of the Departments, Centers, Hostels, Teaching Departments, Acts, Statutes, Ordinances,
    - University Handbook Information and Statistics about 30 to 50 teaching departments and centers
    - Enrollment Information and Statistics of Affiliated and Autonomous colleges,
    - University Research Achievements and database
    - University Learning Resources of library, digital library and ICT

- **Links to e-Governance services of University/College**

    For example,
    - Notices for Faculty, Students, Colleges, Administration, Heads of the Departments,
    - Regular Updating of handbook Information and Statistics
    - Regular Updating of College Information and Statistics
    - Minutes of Meetings of Higher bodies
    - Press Releases)

- **Links to Automation services**

    For example,

- Student Admissions,

- on-line Fees Payments,

- e-Enrollment,

- e-submission and processing of all the forms and applications,

- Faculty leave applications and processing

- On-line verification of degrees and marksheets,

- On-line examination

- Links to Internet services

For example,

- Websites,

- Filtering policy for restricted material

- Access to e-books, e-tutorials, PPTs, Course material,

- Access to Webinars and Virtual Class room lectures)

- Access to E-mail, Video Conferencing, e-Chat and other services

- Student Examination Results, Gradesheets

(ii) Intranet and Internet Links to Video lectures, Seminar Proceedings, and Digital library

16. **Graphical Representation of Extent of user statistics** of the services

SSR of IT Centre
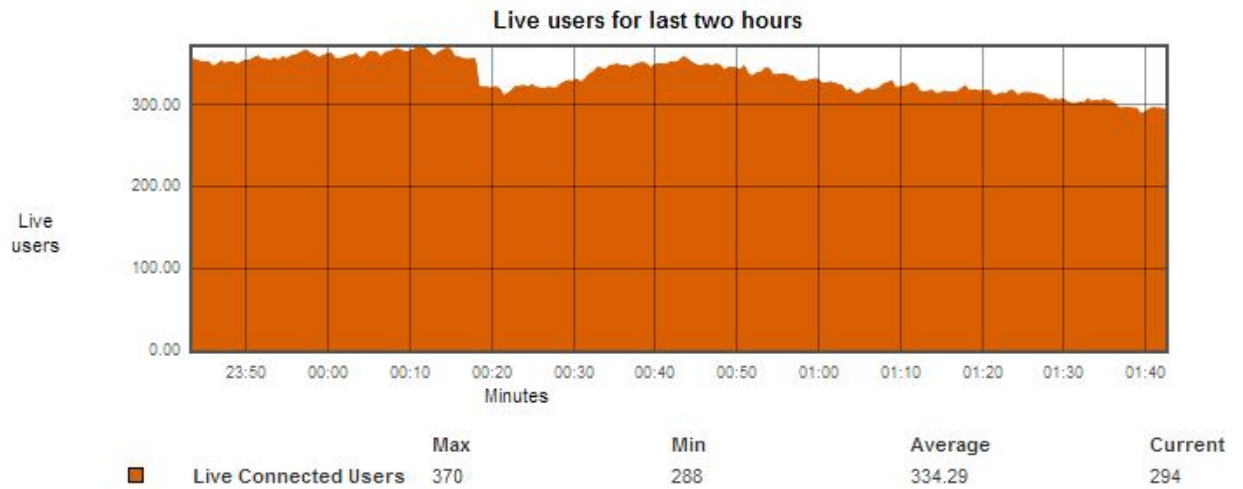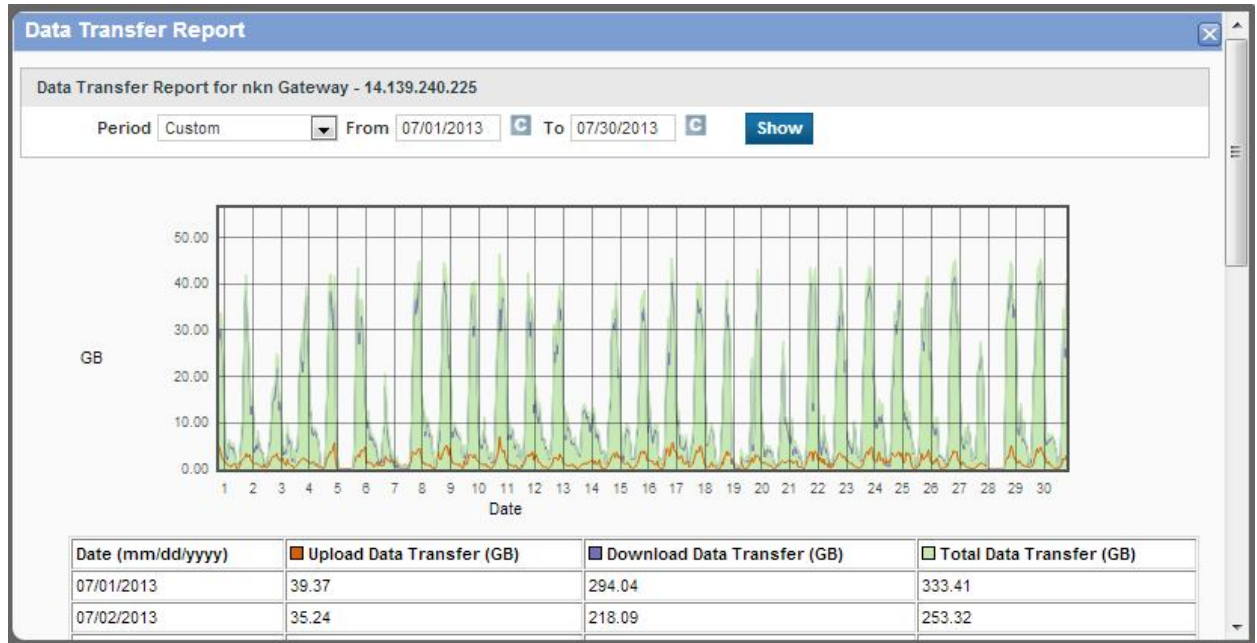
WAN Zone: Total Upload/Download datatransfer for last two hours

WAN (KBits/s)
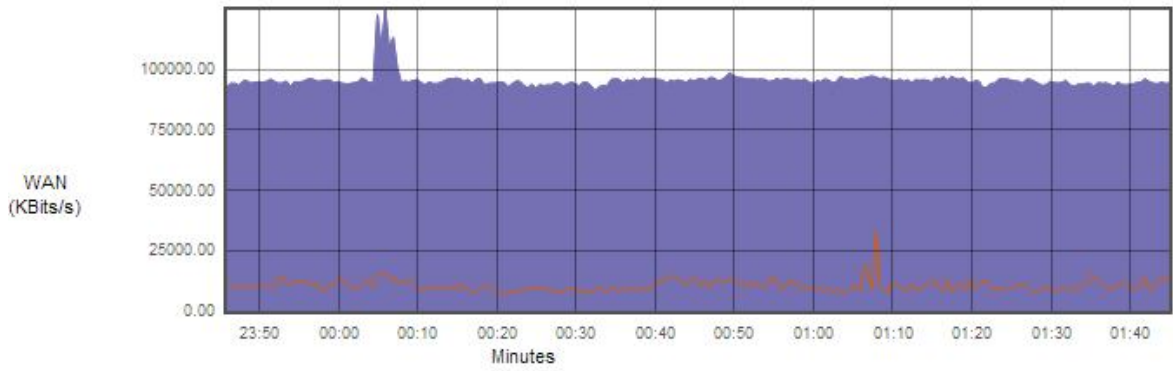
		Max	Min	Average	Current
■	Upload KBits/s	33015.53	6951.74	10459.26	13571.75
■	Download KBits/s	124507.12	91061.05	95331.15	94147.35

Top Destination Countries


Country	Bytes	Percent
United States	31.31 GB	44.34 %
India	28.35 GB	40.14 %
Netherlands	4.49 GB	6.36 %
United Kingdom	1.58 GB	2.24 %
Others	4.89 GB	6.9 %
View All		

SSR of IT Centre
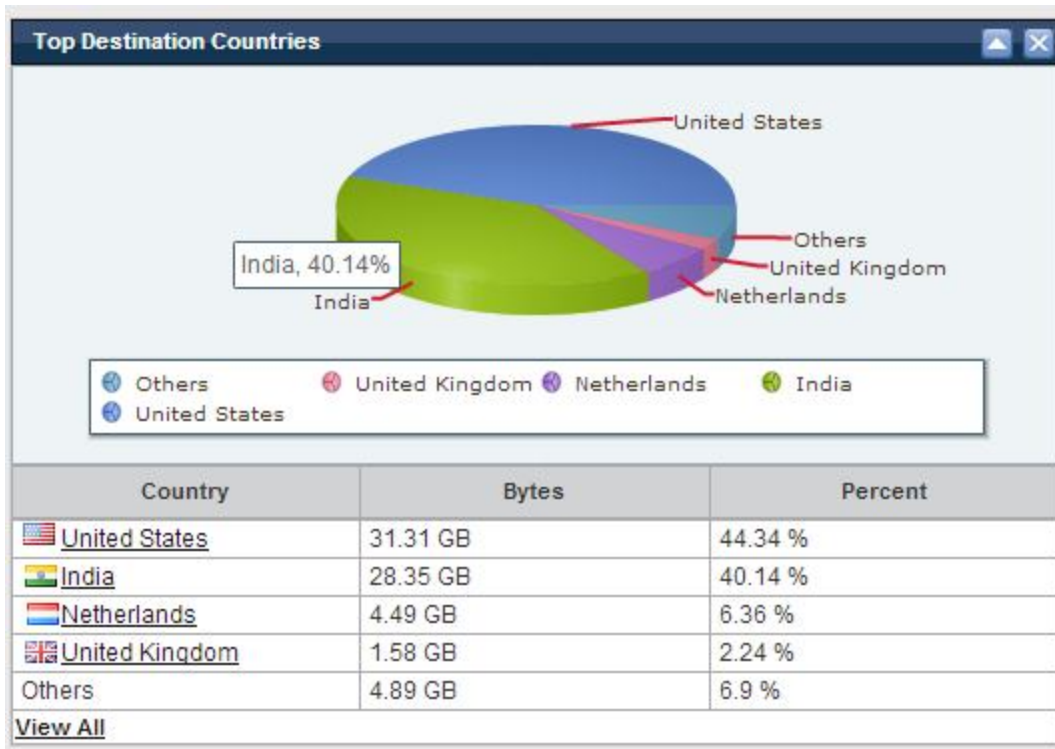
Web Service Statistics
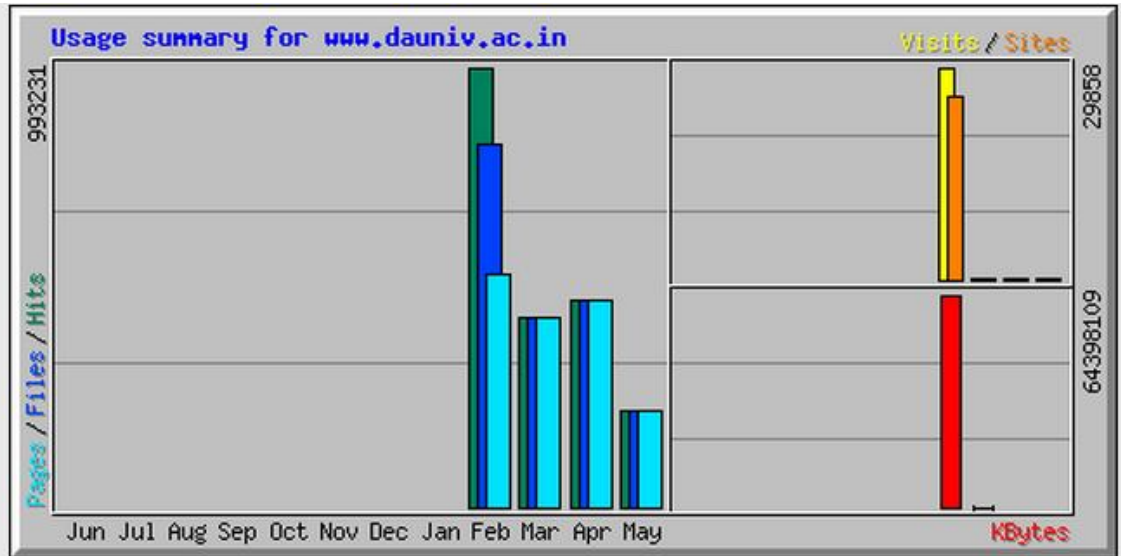
Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
May 2013	13683	13683	13683	2	2	0	44	218941	218941	218941
Apr 2013	15493	15493	15493	2	1	0	74	464813	464813	464813
Mar 2013	13841	13841	13841	3	2	1	98	429096	429093	429096
Feb 2013	38201	31475	20214	1148	25775	64398109	29858	525568	818356	993231
Totals						64398110	30074	1638418	1931203	2106081

4. **Regular up-dation and Monitoring** of the Portal and development of new Web Services: Portal and web development service necessitates the development of website template which defines the look and feel of website with focus on overall objectives giving emphasis to what the users want to achieve and what view they seek.
A website monitoring committee has been formed to give suggestions for website look and feel and content management. The members are
    i. Dr. D.S. Bhilare

    ii. Dr. Vrinda Tokekar

    iii. Dr. Akhilesh Singh

    iv. Dr. Pratosh Bansal

    v. Ms. Shradha Masih

General Statistics:-Last month April-13 daily usage of web site report mention below
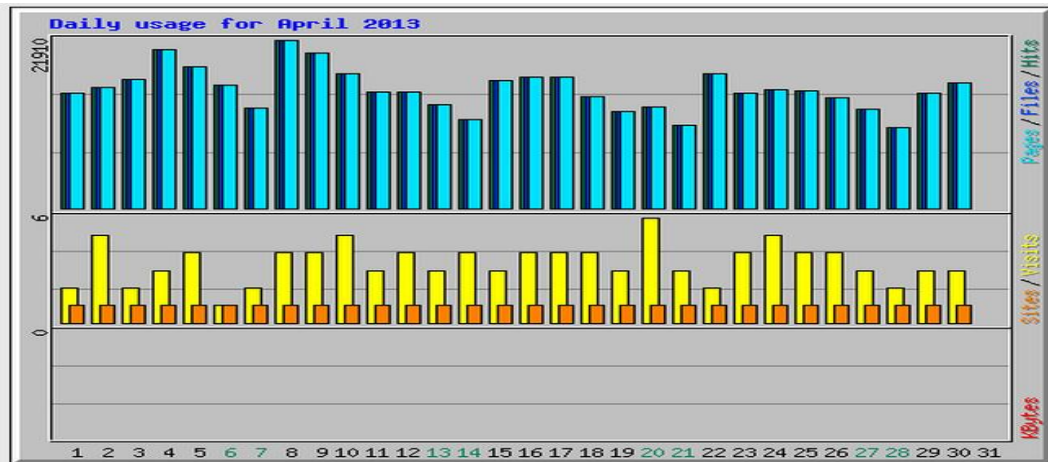
Day	Hits		Files		Pages		Visits		Sites		KBytes	
1	14974	3.22%	14974	3.22%	14974	3.22%	2	2.70%	1	100.00%	0	0.00%
2	15689	3.38%	15689	3.38%	15689	3.38%	5	6.76%	1	100.00%	0	0.00%
3	16820	3.62%	16820	3.62%	16820	3.62%	2	2.70%	1	100.00%	0	0.00%
4	20694	4.45%	20694	4.45%	20694	4.45%	3	4.05%	1	100.00%	0	0.00%
5	18358	3.95%	18358	3.95%	18358	3.95%	4	5.41%	1	100.00%	0	0.00%
6	15950	3.43%	15950	3.43%	15950	3.43%	1	1.35%	1	100.00%	0	0.00%
7	13053	2.81%	13053	2.81%	13053	2.81%	2	2.70%	1	100.00%	0	0.00%
8	21910	4.71%	21910	4.71%	21910	4.71%	4	5.41%	1	100.00%	0	0.00%
9	20147	4.33%	20147	4.33%	20147	4.33%	4	5.41%	1	100.00%	0	0.00%
10	17441	3.75%	17441	3.75%	17441	3.75%	5	6.76%	1	100.00%	0	0.00%
11	15194	3.27%	15194	3.27%	15194	3.27%	3	4.05%	1	100.00%	0	0.00%
12	15110	3.25%	15110	3.25%	15110	3.25%	4	5.41%	1	100.00%	0	0.00%
13	13535	2.91%	13535	2.91%	13535	2.91%	3	4.05%	1	100.00%	0	0.00%
14	11511	2.48%	11511	2.48%	11511	2.48%	4	5.41%	1	100.00%	0	0.00%
15	16676	3.59%	16676	3.59%	16676	3.59%	3	4.05%	1	100.00%	0	0.00%
16	17073	3.67%	17073	3.67%	17073	3.67%	4	5.41%	1	100.00%	0	0.00%
17	17088	3.68%	17088	3.68%	17088	3.68%	4	5.41%	1	100.00%	0	0.00%
18	14476	3.11%	14476	3.11%	14476	3.11%	4	5.41%	1	100.00%	0	0.00%
19	12598	2.71%	12598	2.71%	12598	2.71%	3	4.05%	1	100.00%	0	0.00%
20	13224	2.85%	13224	2.85%	13224	2.85%	6	8.11%	1	100.00%	0	0.00%
21	10815	2.33%	10815	2.33%	10815	2.33%	3	4.05%	1	100.00%	0	0.00%
22	17573	3.78%	17573	3.78%	17573	3.78%	2	2.70%	1	100.00%	0	0.00%
23	15031	3.23%	15031	3.23%	15031	3.23%	4	5.41%	1	100.00%	0	0.00%
24	15468	3.33%	15468	3.33%	15468	3.33%	5	6.76%	1	100.00%	0	0.00%
25	15286	3.29%	15286	3.29%	15286	3.29%	4	5.41%	1	100.00%	0	0.00%
26	14314	3.08%	14314	3.08%	14314	3.08%	4	5.41%	1	100.00%	0	0.00%
27	12828	2.76%	12828	2.76%	12828	2.76%	3	4.05%	1	100.00%	0	0.00%
28	10553	2.27%	10553	2.27%	10553	2.27%	2	2.70%	1	100.00%	0	0.00%
29	15030	3.23%	15030	3.23%	15030	3.23%	3	4.05%	1	100.00%	0	0.00%
30	16394	3.53%	16394	3.53%	16394	3.53%	3	4.05%	1	100.00%	0	0.00%

SSR of IT Centre

17. **LAN Network Solutions Assistance:** LAN is crucial as it enables sharing of ICT resources, which can be accessed by anyone within organization. IT Centre is giving technical assistance in local area network requirements of departments and sections.

18. **Provisioning for ICT Literacy, Education and Training:** About a general awareness of the user and benefits of ICT in University operations. Through ICT training, it is concerned with the generation of a continuous ICT manpower who will design, develop, implement and manage the computer based Information Systems

- **Establishment of DAVV-NTPC (National Thermal Power Corporation) Foundation Information and Communication Technology (ICT) Centre for Visually Challenged Students:**

DAVV is the first university of Madhya Pradesh to have collaborated with NTPC foundation for starting centre for visually challenged students. The centre is equipped with state of art facilities for giving training on basic computer operations, Word processor and Internet usage. The special software like Jaws Pro Talking software, Kurzweil K 1000 Scanning & Reading software, MAGIC Pro Screen magnification software, Duxbury Braille Translation software, Talking Typing Tutorial software, Hands Free Voice Recognition software, One hand Typing software have been installed in the ICT Centre. The centre is also having One Braille embosser for preparing brailed document sheets. The centre activities started in April 2013. The Centre is conducting special Computer training programs for visually challenged students. The centre has successfully completed following two training programs of 2 months duration with 10 participants in each program:

i) Computer Awareness

ii) Training program on IT skills and Internet usage

Training program organized in IT Centre:

- **Faculty Training program "Teacher Empowerment"** to create ICT Champions as part of MHRD's NMEICT project Microsoft Saksham 10th June -20th June' 2013 organized by I.T. Centre with SCS&IT and Computer Centre.

- IT Centre organized **Computer Awareness Training program for visually challenged students** in its DAVV-NTPC foundation ICT centre. This training program was of two months duration was held since 2nd April to 3rd June 2013. Ten students participate in training.

- IT Centre conducted two months duration training program on **I.T. skills and Internet usage for visually challenged students** during 2nd April to 3rd June 2013. There were 10 students participated in this training program.

- Organized **Two Training Programs on MS Office and Internet Basics for University employees** during 22nd August to 4 September 2012 and 11th March to 23rd March 2013. More than 30 staff members have been benefited from this program.

- Following training programs have been conducted in collaboration with other University Teaching departments.

  - **Internet training for senior citizens** during 2nd March to 15th March 2013 with School of Lifelong learning.

  - **IT Awareness Web development skills** January 2013 in Collaboration with Academic Staff College.

  - **Training on SPSS Tool usage** in collaboration with Academic Staff College in January 2013.

  - **Training on Library and effective search on e-resources** in collaboration with Academic Staff College and Central Library in March 2013.

  - **Training on Computer basics and Internet in collaborations with School of Social Science** during 30th

October to 31 November 2012. Number of Participants 180 students of M. Phil Program.

19. Provisioning for delivery of courses and Certification of ICT Professionals

I.T Centre is conducting Cisco Certified Network Associate (CCNA) certificate

program for students.

Programmes	Number	Course/Subjects
CCNACertification Course	20	Computer Network

Total Number of Students Admitted in CCNA Course

Year	Number of Students
2008-09	**20**
2009-10	**20**
2010-11	**20**
2011-12	**20**
2012-13	**13**

20. **Consultancy to other organizations for establishment of ICT services**

The Automation of University processes is under progress. Some of the e-Governance activities are being held in University through IT Centre IT infrastructure are:

All services are Student Centric

Online Results

Online Services available to Students on DAVV website through MP Online

- Application for DAVV entrance exam (CET)
- Admission and Registration in UTDs
- Exam form Submission in UTDs & colleges
- University Fee submission in UTDs & Colleges
- Internal Marks (Practical & CCE) submission by colleges
- Employee Training for e-Governance

22

SSR of IT Centre

Online Services under Progress

- Automatic Degree Printing linking to Result database
- Online Application submission and processing for

    Duplicate Marksheet

    Migration certificate

    Degree Application

    Revaluation of marks

    Review of marks

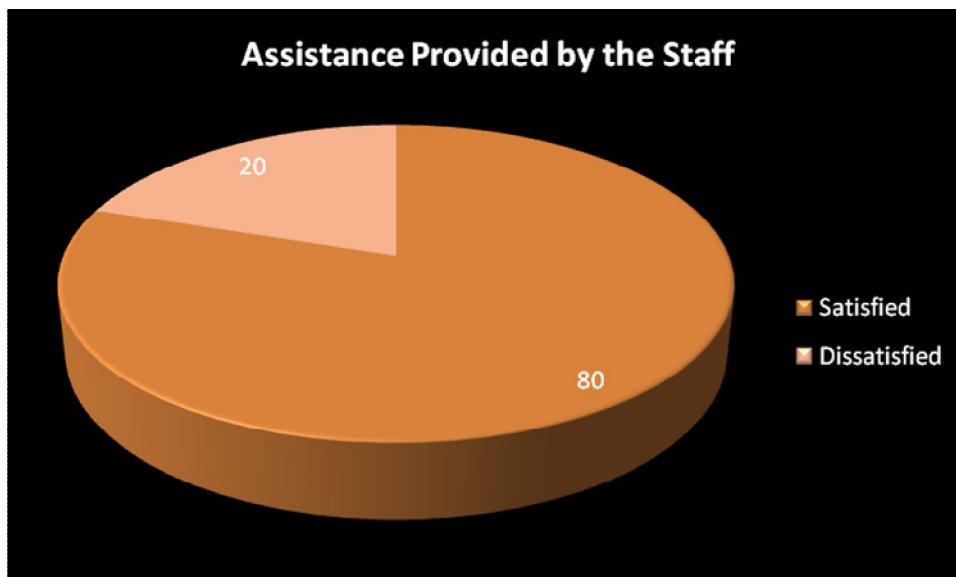- Online delivery of above certificates
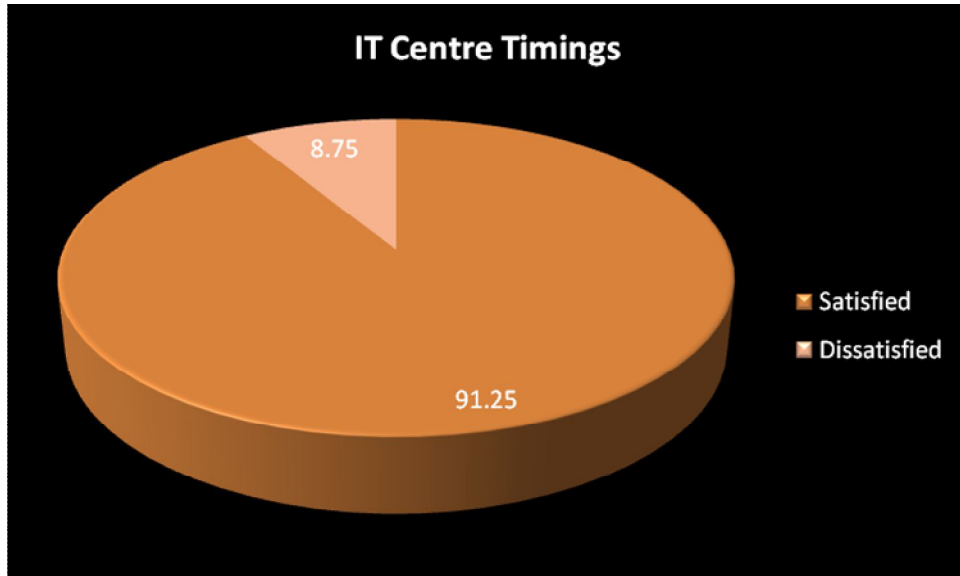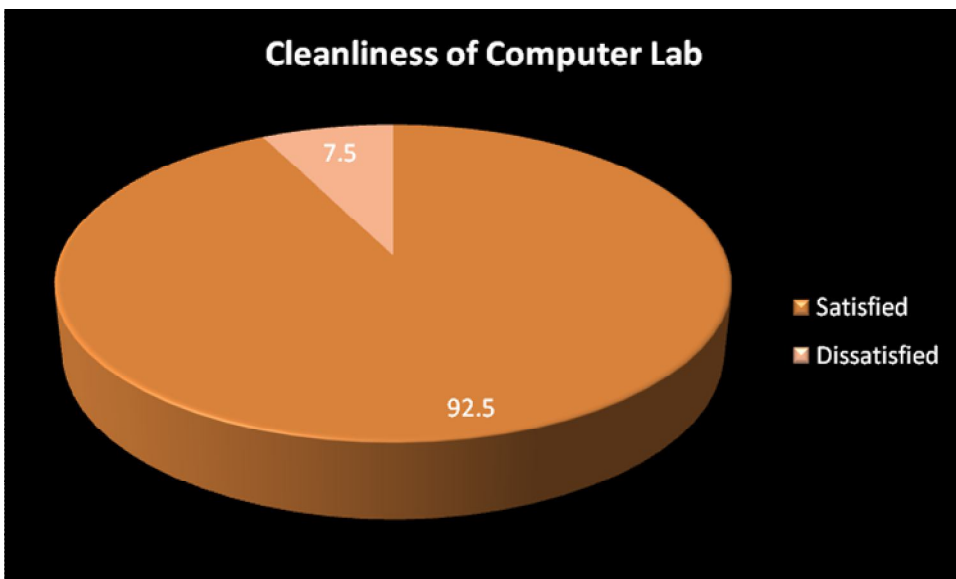
22. **Records of feedback from** :

I. Internet Speed

SSR of IT Centre
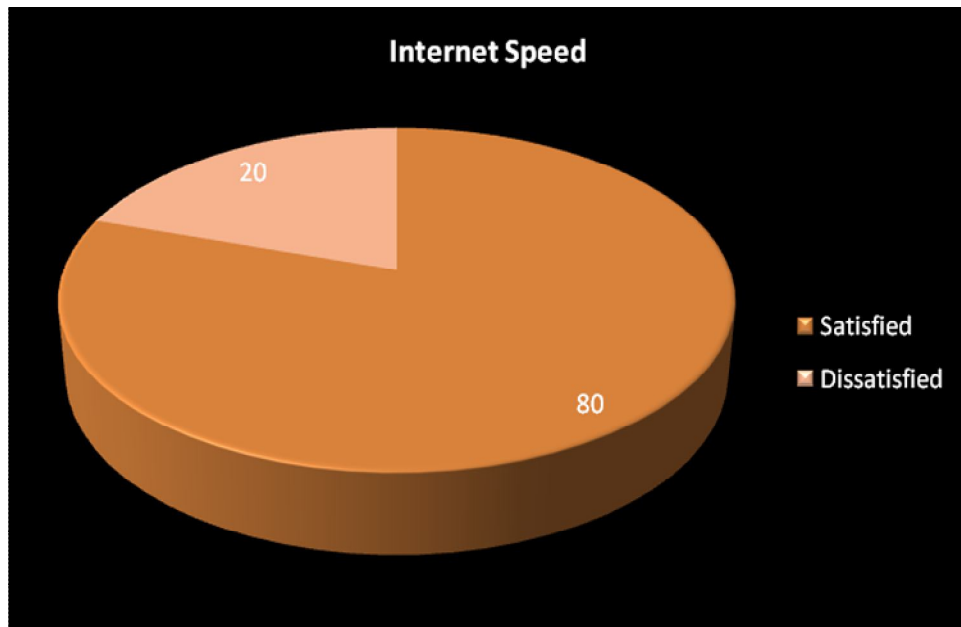
(ii) Internet Access Rules
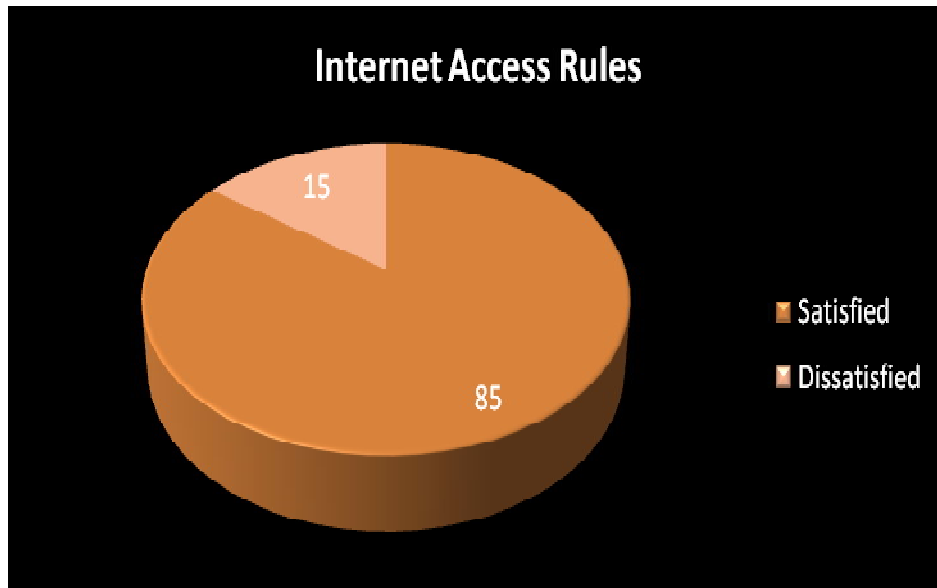
(iii) Assistance provided by the staff

SSR of IT Centre

(iv)IT Centre Timing

(v) Cleanliness of Computer Lab

SSR of IT Centre
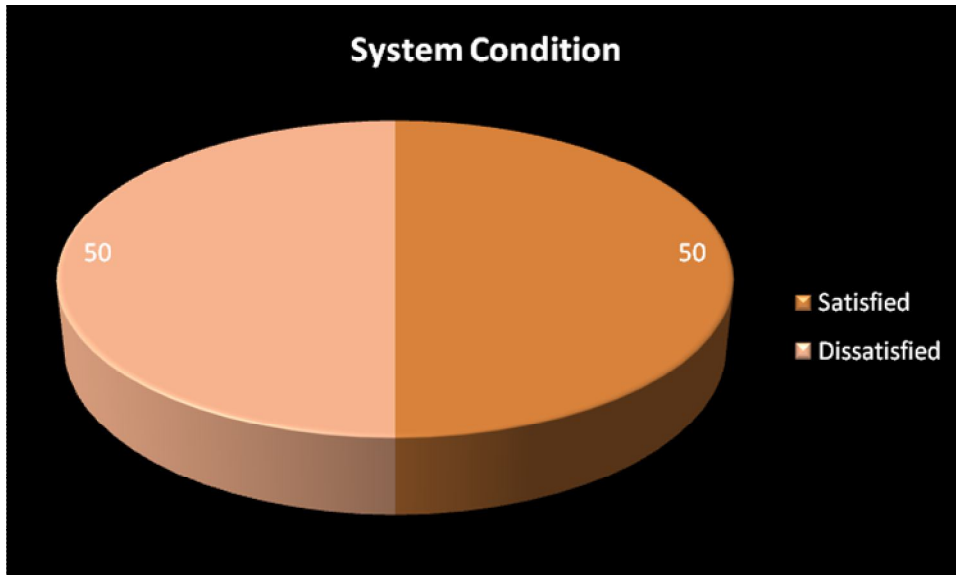
(vi) IT Centre Services
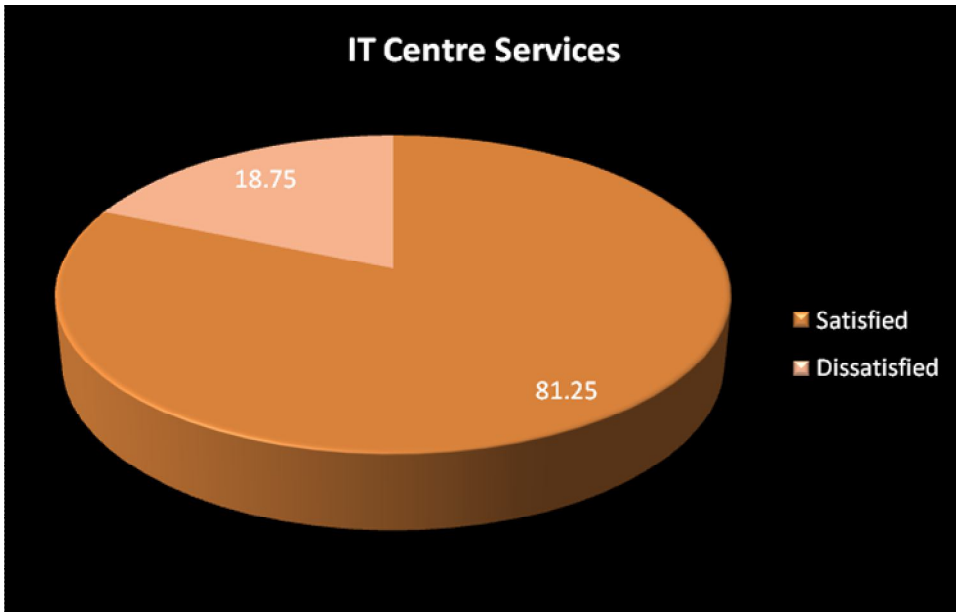
(vii) Availability of Computers

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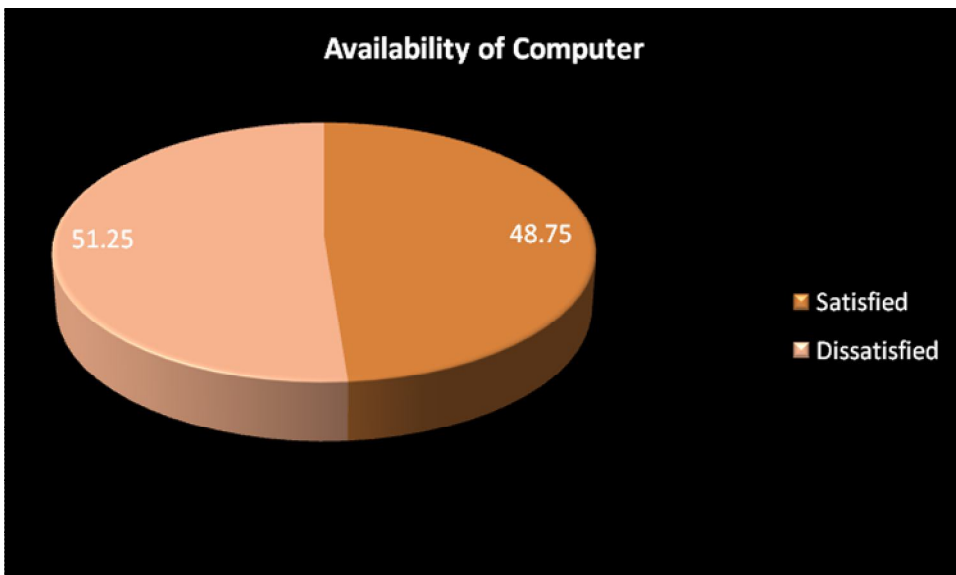
(viii) System Condition

23. **Write up of Future plans of the department. :**

Document Management & work flow management.

- File tracking system for e-governance.
- Video Conferencing among the campuses.
- Degree Printing with Photograph & Signature.
- Personal Advance Management System.
- To provide IP Telephony.
- To use the infrastructure for distance education.
- Future plan includes up gradation of existing links and providing redundant connectivity to departments and hostels through fiber.

24. **Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the department:**
    - **Establishment of DAVV-NTPC (National Thermal Power Corporation) Foundation Information and Communication Technology (ICT) Centre for Visually Challenged Students:**

DAVV is the first university of Madhya Pradesh to have collaborated with NTPC foundation for starting centre for visually challenged students. The centre is equipped with state of art facilities for giving training on basic computer operations, Word processor and Internet usage. The special software like Jaws Pro Talking software, Kurzweil K 1000 Scanning & Reading software, MAGIC Pro Screen magnification software, Duxbury Braille Translation software, Talking Typing Tutorial software, Hands Free Voice Recognition software, One hand Typing software have been installed in the ICT Centre. The centre is also having One Braille embosser for preparing brailed document sheets. The centre activities started in April 2013. The Centre is conducting special Computer training programs for visually challenged students. The centre has successfully completed following two training programs of 2 months duration with 10 participants in each program:

i) Computer Awareness
ii) Training program on IT skills and Internet usage

- **Infrastructural Development**:

i) **Campus Wi-Fi Network**:

I.T. Centre has successfully installed and commissioned Wi-Fi network in Takshashila Campus. The Wi-Fi network is implemented using latest Motorola based network controllers, Indoor and Outdoor Access points. Campus Wi-Fi network covers around 70% of Campus area. University has invested 25 lakh for the same.

ii) **Up gradation of network infrastructure from 100 mbps to 1Gbps**:

I.T.Centre successfully replaced 75% of its Network Switches from 100 Mbps to 1 Gbps manageable switches. These switches are core and edge switches which can provide 100mbps bandwidth at user desktop. University has invested about Rs.15 lakh for the same.

iii) **Up gradation of Internet lease line connection to 10 Gbps**

IT centre has upgraded its leased line Internet connectivity from 16

mbps to 1 Gbps under NMEICT project. Under this scheme University has paid Rs. 50 lakh as 10 years subscription for 1Gbps connectivity.

25. **Unique IT infrastructure created in University:**

The establishment of campus wide fibre network was planned in 1998-99 on self finance basis in DAVV. A team of teachers worked with exemplary dedication in planning and designing of state of art network infrastructure. The work order was placed to leading top I.T. Company of Country Computer Maintenance of Corporation of India (earlier a Govt. of India undertaking now a company owned by Tata group) for full network installation and commissioning of Campus wide network in year 1999. This work was completed in three phases. In first phase academic campus known as Takshashila campus was covered and in second phase networking of Nalanda campus, the administrative campus of DAVV was completed. In third phase University engineering and pharmacy education blocks were networked. University invested around Rs. 2.5 crore in creation I.T. Centre and network infrastructure during 1999-2003. The steering team consisted of Dr. Rajkamal, Lt. Dr. A.K. Ramani, Lt. Dr. M.K. Sahu, Dr. D.S. Bhilare and Dr. Mrs. Vrinda Tokekar, was formed for execution of project.

The I.T. Centre is perhaps unique example of self initiated efforts made by a University in the Country for taking great leap forward with futuristic approach. Later in year 2000, UGC provided 20% support to the I.T. Centre out of Rs. 2.5 Crore expenses made during years 1999 and 2000.

Association of Indian Universities Western Zone conference of Vice Chancellors held in August 2006 at Bombay lauded and appreciated the efforts of the University. Executive Council of the University also congratulated the Faculty Officers/Staff and Computer Centre on successful completion of project.