Evaluative Report of School of Computer Science & IT- A

1. Name of the Department: **School of Computer Science & IT**

2. Year of establishment: **1986**

3. Is the Department part of a School/Faculty of the university? **School of Computer Science & IT is University Teaching Department.**

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):

   1. **BCA**
   2. **MCA**
   3. **MSc.(Computer Science)**
   4. **M.Sc. (Information Technology)**
   5. **MBA(Computer Management)**
   6. **M.Tech. Computer Science**
   7. **M.Tech. Network Management & Information Security**
   8. **M.Tech. Information Architecture & Software Engineering**
   9. **Ph.D.**

5. Interdisciplinary programmes and departments involved: **Computer Applications course of Ph.D. Course Work conducted in the department.**

6. Courses in collaboration with other universities, industries, foreign institutions, etc.: **NIL**

7. Details of programmes discontinued, if any, with reasons: **M.Tech. Bio-Informatics** (No student took admission in July 2011)

8. Examination System: **Semester**

9. Participation of the department in the courses offered by other departments: **NA**

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	05	02	02
Associate Professors	08	03	03
Asst. Professors	12	07 + 11*	07+11*
Others (Visiting)	-	-	02

   * On Contract

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

S.No.	Name Address	Present Post	Qualification & Specialization	No. of Yrs. Experi-ence	No. of Ph.D. Students guided for last 4 yrs.
1	Dr. Raj Kamal	Professor, SCSIT	Ph.D - IIT Delhi, 1972 Post M.Sc. - IIT Delhi, 1967 M.Sc. - 1966 B.Sc. - 1964 Intermediate - 1962 High School -1960 D.O.B.03021949	41 Years Teaching; 46Years Teach & Research	6
2	Dr. Sanjay Tanwani	Professor & Head, SCSIT	Ph.D. ME (Computer Engineering) - 1990, SGSITS Indore, BE (Computer Engineering) - 1986, SGSITS, Indore	27 Years	1
3	Dr. D.S. Bhilare	Professor/Sr. System Manager & Head, Computer Centre,	Ph.D. M.Tech (CS) - 1994 DAVV, Indore 70.63%, M.Phil (CS) - 1992 DAVV, Indore 79.5%, MBA - 1986 DAVV, Indore 62.94%, B.Sc. - 1977 50.37%, XI - 1974 52.38% CCNA, CCAI	33 Years	
4	Dr. Maya Ingle	Professor/Sr. System Analyst, Computer Centre	Ph.D. M.Tech (CS) - 1994 IIT Kharagpur M.Sc. (Statistics)	27 Years	6
5	Dr. Priyesh	Professor/Sr. System	Ph.D, M.E.(C.E.),	25 Years	1

	Kanungo	Engineer, Computer Centre	M.Phil.(C.S.)		
6	Dr. Arvind Kumar Goyal	Reader/Sr. Programmer, Computer Centre	Ph.D. MCM - 1996 DAVV, Indore 77.74%, M.Sc. (Maths) - 1981, Meerut Univ. 62%, B.Sc. - 1976 41.3%, XII. - 1974 47.8% X - 1971 62%	23 Years	
7	Dr. Ugrasen Suman	Reader, SCSIT	Ph.D. - 2008, MCA-2001 RDVV Jabalpur-68%, B.Sc. - 1998 57% APS Univ. Rewa, 12th - 1995 58%, 10th 1993 66%	11 Years	1
8	Ms. Preeti Saxena Agarwal.	Reader, SCSIT	M.Tech. (CS) SCS DAVV, Indore - 2008 88% MCA-1996 MACT, Bhopal 77.6% B.Sc- 1993 - 70% 12th - 1990 71% 10th - 1988 74%	16 Years	NA
9	Ms. Shraddha Masih	Reader, SCSIT	M. Tech.(CS) SCS, DAVV- 2007 MCA 2004 IASE,GVM,Rajasthan - 85% MCM 2000 - 76%, DAVV B.Sc. 1997 -70% 12th 1993 - 76% 10th 1991 - 73%	13 Years	NA
10	Mr. Ajay Tiwari	Lecturer, SCSIT	MCA-1997 DAVV, Indore 62% M.Phil (maths) - 1991 DAVV, Indore 74% M.Sc. (Maths) 1990, APS Univ. Rewa 70% B.Sc- 1988 - 57%	16 Years	NA

			H.Sc. 1985 60%		
11	Dr. Hemant Kumar Mehta	Lecturer, SCSIT	Ph.D.-2011 MCA- 2001 66.54%, B.Sc. (CS)-1998- 57.4%, 12th -1994- 62.87%, 10th -1991- 54%	12 Years	NA
12	Mr. Alok Tiwari,	Programmer, Computer Center	MCA - 2001 64.1%, PDCA-1992 80%, Diploma in Civil Engg., 1985 70%, Matric - 1981 57.4%	23 Years	NA
13	Mr. Nitin Uikey,	Softtware Engineer, SCSIT	MCA-2003, 75.80%, IIPS,DAVV, Indore BCA - 2000 55.4% IIPS, DAVV, H.Sc. 1997 61.1% X-1995-63.6%	10 Years	NA
14	Mr. Deepak Abhyankar	Software Engineer, SCSIT	M.Tech (CS)-2001 DAVV 78% MCA 1998 Jiwaji Univ. 68%, B.Sc. 1995 Vikram Univ. 61%, 12th 1992 73%	10 Years	NA
15	Mr. Anand More	Maintenance Engineer, Computer Centre	MCA (DE) - 2004 76.7%, M.Tech (Instru.) 2000 II Div. DAVV, Indore M.Sc. Elex. & Comm.) - II Div B.Sc. 1994 - II Div. 12th - 1990 II Div. 10th-1988 - II Div	16 Years	NA
16	Ms. Archana Chaudhary,	Lecturer, SCSIT	M.Tech(CS) -2010 SCSIT DAVV, M.Sc, (CS)-1999 DAVV 72.77%, B.Sc. 1995 DAVV 66% 12th 1992 54.8%, 10th	12 Years	NA

			1990 63%		
17	Ms. Chaitali Uikey	Lecturer, SCSIT	M.Tech(Info. Security) - 2009 - MANIT Bhopal, MCA -2005 RGPV Bhopal 74.7%, B.Sc. - 2002 BU Bhopal 67% 12th - 1997 55%, 10th - 1995 67%	6 Years	NA
18	Mr. Hitesh Ninama	Lecturer, SCSIT	M.E. (IT) - 2012 IET DAVV , B.E. (IT)-2006 70.69%, 12th - 2002 52.02%, 10th - 2000 59.2%	6 Years	NA
19	Mr. Chetan Awasthi	Lecturer, SCSIT	M.Tech(CS) - 2010 - SCSIT DAVV, Indore, 77%, M.Sc.(Cs) MCRPV, Bhopal 69% B.Sc.(Maths) Govt. Nehru College, Agar Malwa Vikram Univ. Ujjain 52%	7 Years	NA
20	Ms. Shweta Agrawal	Lecturer, SCSIT	M. Tech.(CS) - 2010 - SCSIT DAVV 85.12% M.Sc(Elex&Comm) - School Of Electronics DAVV 83.7%, B.Sc. - K. P. College Vikram University 57.4%	7 Years	NA
21	Mr. Pankaj Jagtap	Lecturer, SCSIT	M.Tech (Network Management) - 2010 - SCSIT DAVV, 76%, M.Sc(Electronics) - School Of Electronics DAVV 65%	4 Years	NA
22	Ms. Tarjani	Lecturer,	MCA -2009 - IIST RGPV 70.62%,	4 Years	NA

	Sevak	SCSIT	B.Sc(Computer Science) - M.B.Khalsa College DAVV 51.61%		
23	Ms. Pritika Bahad	Lecturer, SCSIT	M.Tech (Mobile Computing Technology) - 2012 - School Of Electronics DAVV, Indore M.Sc.(CS) SCSIT Davv,Indore 88.57%, B.Sc(CS) Holkar Science College Davv,Indore 78.78%	7 Years	NA
24	Mr. Mohit Kumar Verma	Lecturer, SCSIT	MCA - 70.24% SVITS, RGPV BCA - 75.84% 12th - 72.88% 10th - 68.4%	4 Years	NA
25	Mr. Shantilal Dawar	Lecturer, SCSIT	ME (Pursuing), BE(IT) - S.G.S.I.T.S Indore RGPV 65.27%	3 Years	NA
26	Ms. Deepika Rai	Lecturer, SCSIT	MCA - SCSIT DAVV, Indore 74.46%, B.Sc(CS) - Christian Eminent College DAVV, INDORE 69.2%	3 Years	NA
27	Ms.Sunita Gaur	Lecturer, SCSIT	M.Tech (CS) - SCSIT DAVV, Indore 74.39%, B.Sc (Comp & Maths) Victoria University Victoria University Australia 65%	11 Years	NA
28	Mr. Kanchedi Lal	Lecturer, SCSIT	M.Tech(MCT) - 2011 -73.79% SOEx DAVV MCA - 64.55%	5 Years	NA

			SCS&IT B.Sc - 52.94% 12th - 69.33% 10th - 76.6%		
29	Mr. Praveen Shrivastava	Lecturer, SCSIT	MCA - 75% IASE,GVM,Rajasthan M.Sc.(CS) - 65% SCS,DAVV BCA -52% 12th - 63% 10th - 75%	11 Years	NA

* On Contract

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

The School is processing offer to Eminent Professors in the field of Computer Science to provide their consent for Visiting Professorship for the academic year 2013-14.

13. Percentage of classes taken by temporary faculty – programme-wise information – 28.1%

Programme	% of classes taken by temporary faculty	%of classes taken by part time faculty
M. Tech.	0%	0%
MCA	30%	10%
M.Sc.(CS)	30%	10%
MBA(CM)	30%	10%
BCA	45%	15%

The institute has regular as well as self financing programmes. The staff is sanctioned for both regular as well as self financing programmes. However, for teaching-learning purposes, the faculty members are allotted subjects based on their expertise in different subjects. In short, the teachers are appointed in the school and are their services are utilized for various programmes. They are not appointed for specific programmes.

14. Programme-wise Student Teacher Ratio

     MCA   60x3 = 180

     BCA   60x3 = 180

     M.Tech.   20x3 = 60

     M.Sc.(CS/IT) 60x2 = 120

     MBA(CM)   30x2 = 60

   (R – Regular, T- Temporary)

The department has 697 students including UG, PG & Ph.D. students and the teaching staff strength is 23. On an average about 15 guest faculty were associated in every semester.

Thus total faculty= 23 (Regular and Temporary) + 17 visiting= 40

The laboratories are supported by **50 senior M.Tech. students**, who work as teaching assistants. The department has 15 part time staff coming for teaching allied subjects. The department has advertised for 14 contract lecturer positions against vacant posts.

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Sanctioned Post		Designation (Non Teaching staff)		
		Technical	Non technical	
		06	15	
S.No.	Name	Designation	Qualification	Date of Joining
Regular-08				
1	Sanjay Chawla	Dy. Lib.	M.Lib.	18/8/1992
2	Ratanlan Paliwal	LDC	XIIth	1/12/1981
3	Sanjay Silawat	STA	B.Lib	1/1/1991
4	Rakesh koushal	Counter Clerk	XIIth	3/1/2003
5	Ashok Chowdhary	Peon	VIIIth	27/7/2010
6	Suresh Chouhan	Peon	VIIIth	1/11/1994
7	Nirmala Jaiswal	Peon	Vth	30/1/1992
8	Ramdas Wagh	Peon	VIth	29/6/1991
Contract & Daily Wages-13				
9	Mahesh verma	Supdt	BA, PGDCA	7/10/1994
10	Narendra Daketa	Comp. Op.	BCm, PGDC	18/4/1994
11	R S Rathod	Comp. Op.	BCom, PGDCA	18/5/1999
12	Mahesh Verma	Assistant	BCom LLB	1/12/2009
13	Mudita Shah	Comp. Op.	B.HSc., PGDCA	30/10/2003

14	Jyoti ratnawat	Office Admin	Ph.D.	1/9/2009
15	Javed Khan	Lab Assistant	B.Com.	1/3/2009
16	Dinesh vaishampayan	Peon	XIth	11/9/1995
17	Amita Tiwari	Class III	M.A.	1/6/1998
18	Sarda Prasad	Grdener	Vth	1/7/1990
19	Mayank Thakur	Class III	BCom	10/1/1995
20	Sunny Devda	Class IV	Xth	1/3/2009
21	Sunil Choube	Class IV	XIth	1/12/2009

16. Research thrust areas as recognized by major funding agencies:

- Database & Data Mining,
- Embedded Systems
- Software Engineering
- Network management

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.
NIL

18. Inter-institutional collaborative projects and associated grants received:
NIL
a) National collaboration   b) International collaboration

   Memorandum Of understanding (MOU) with

1. Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
2. National Research Centre for Soyabean (NRCS), Iindore
3. I^{2}IT, Pune.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: NIL

20.

S.No.	Funding Agency	Scheme	Grant Amount
1	UGC	Infrastructure	10.0 Lacs
2	Department of Sc & tech	FIST	25.0 lacs
3	UGC	SAP (Database & Data Mining)	50.0 lacs

21. Research facility / centre with state recognition

Database & Data Mining Lab with two IBM quad core servers with 20 nodes for training and research in database & data mining: PSW Modeller & SQL Server. One of the state-of-art facility with no other university having similar facility created under UGC-SAP grant. The training programme on Database & Data Mining conducted in July 2010 attracted 60 participants from the various engineering colleges of the state.

National recognition

The department has latest desktops upgraded every 2-3 years and two servers from IBM (Configuration attached) at par with National standard. The software procurement is as per requirement at PG & Ph.D. level.

International recognition

Two books published by Dr Raj Kamal has international editions and are published in Chinese and Korean languages and are studied across the globe. Total number of books: 13 Books from McGraw-Hill (2), Schaum Series (1), Oxford Univ Press (1), Pearson Education (2)

21. Special research laboratories sponsored by / created by industry or corporate bodies: NIL

22. Publications:

∗Number of papers published in peer reviewed journals (national / international)

S. No.	Name of the Faculty	No. of Papers published (2008-2013)
01	Dr. Raj Kamal	33
02	Dr. M. Ingle	21
03	Dr S Tanwani	17
04	Dr. P. Kanungo	15
05	Dr. U. Suman	40
06	Dr D S Bhilare	09
07	Late Dr A K Ramani	08
08	Ms. P. Saxena	13
09	Ms. S. Masih	05
10	Dr. Hemant Mehta	11

S. No.	Name of the Faculty	No. of Papers published (2008-2013)
11	Dr. Deepak Abhyankar	09
12	Mr. Nitin Uikey	01
Total		**180**

∗Monographs: Nil

∗Chapters in Books:
Books with ISBN and details of publishers

INTERNATIONAL REPUTED PUBLISHERS (2008-13)

1. Embedded Systems - Architecture, Programming and Design, Raj Kamal - A Text Book, McGraw-Hill_, First Edition: US Reprint, McGraw-Hill, NewYork, USA, Sep 2006, www.mhhe.com/kamal/emb2 McGraw-Hill, International, Singapore, May, 2004, and Tata McGraw Hill, New Delhi (First Print July 2003, Fifteenth Reprint March 2008), Translation in Mandarin (Chinese) by McGraw-Hill, Taiwan 2004, and by McGraw-Hill, South Korea. 2005, 2nd Edition May/June 2008, 3rd Edition in process, 2012-13, ISBN:0070667640

2. Mobile Computing, Raj Kamal, www.oupinheonline.com Oxford University Press, 1st Edition, Oct. 2007; 2nd Edition, 2012, ISBN:9780198068914

3. Computer Architecture, [Nicholas Carter (original author) and Raj Kamal (Adaptation/Revision author)] Published as Schaum Series www.mhhe.com/carter/cao McGraw-Hill, International Indian Edition, Ist Edition May 2006, 2nd Edition 2010, ISBN:0070141797

4. Microcontrollers. – Architecture, Programming, Interfacing and System Design,, Raj Kamal- A Text Book, www.pearsoned.co.in/Raj Kamal Pearson Education, Singapore, First Edition and First Print, 2005, Translation in Mandarin (Chinese) by Pearson, Taiwan 2009, 2nd Edition, 2012, ISBN:978813164732

5. Digital Systems Principles and Design, Raj Kamal – A Text Book, www.pearsoned.co.in/Raj Kamal Pearson Education, Anna Univ.Edition, 2012, ISBN:9788177585704

6. Switching Theory and Logic Design, Raj Kamal - A Text Book, www.pearsoned.co.in/Raj Kamal Pearson Education, JNTUK Edition, 2012, ISBN:9788131769010

7. Computer Programming and IT, [Two other authors and Raj Kamal]- a Text Book www.pearsoned.co.in Pearson Education, RTU Edition, 2011, Revision in process 2012, ISBN:

23. Details of patents and income generated
    NIL

24. Areas of consultancy and income generated: Efforts are being made. A task group has been setup in the University for Consultancies.

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad: Nil

- Visit to IIIT, Allahabad by Dr S Tanwani for studying Image processing Facilities, July 2009

- Visit to IIT Indore by Dr S Tanwani for studying virtual class room, July 2011. One of the Ph.D. student Mr. Ram Hablani is doing research under joint guidance of Dr. N S Chaudhari & Dr S Tanwani

- Visit of Dr M. Ingle to IIIT, Jabalpur for advanced research collaboration in compiler design. Also, involved in eContent development on computer programming subjects for IIIT, Jabalpur.

- Visit of Dr S Tanwani to IIT, New Delhi for meeting Prof. H.M. Gupta for discussing emerging trends in IT and starting Indore chapter of ICEIT (Institution of Communication Engineering & Information Technology)

- Visit of Dr S Tanwani to RRCAT, Indore to study high performance cluster and discuss research issues undertaken by Ms. Alpana Rajan registered for Ph.D. in the department.

- Regular visits of Dr Raj Kamal to National Research Centre for Soyabean (NRCS) for Artificial Intelligence research issues in predicting soyabean crop output with Dr Savita Kolhe, Sr. Scientist at NRCS.

26. Faculty serving in
a) National committees b) International committees c) Editorial Boards d) any other (please specify)
Dr Raj Kamal:

1. Expert Member & Confidential tasks for State Public Service Commissions & Union Public Service Commission.

2. Expert Member/Evaluator, National Board of Accreditation, New Delhi

3. Editorial Board Four Journals; Reviewer IEEE Transactions on VLSI

Dr. S. Tanwani:

1. Expert Member & Confidential tasks for four different state

public service commissions

2. Expert Member/Evaluator, National Board of Accreditation

3. Member, UGC NET Evaluation

Dr M Ingle:

1. Expert Member & Confidential tasks for state public service commissions.

2. Expert Member/Evaluator, National Board of Accreditation

3. Member, UGC NET Evaluation

Dr. D. S Bhilare:

1. Expert Member & Confidential tasks for state public service commissions

2. Expert Member/Evaluator, National Board of Accreditation

3. Member, UGC NET Evaluation

Dr. P. Kanungo:

1. Expert Member & Confidential tasks for state public service commissions

2. Member, UGC NET Evaluation

Dr. Ugrasen Suman:

1. Expert Member for AICTE Inspection

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).
    Faculty members sent for Post Doctoral Fellow

1. Dr. Hemant Mehta sent for Post Doctoral Fellow to Ecole des Mines, Nantes/ INRIA, France

Following faculty members have completed their Ph.D.

1. Dr. Hemant Mehta, July 2011

2. Dr. Ugrasen Suman, March 2008

3. Mr. D. Abhyankar, submitted Ph.D. Thesis in Oct 2012

Following faculty members have completed their M.Tech.

1. Ms. Archana Chaudhary, July 2011

2. Ms. Sunita gaur, July 2011

3. Mr. Chetan Awasthi, July 2011

4. Ms. Chaitali Uikey, July 2011

5. Ms. Pritika Bahad, July 2012

6. Ms. Arti Deshpande, July 2012

7. Ms. Shweta Agrawal, July 2011

Following faculty members are persuing their Ph.D.

1. Ms. S. Masih, Distributed Data Mining

2. Ms. P. Saxena, Location based services on mobile (Thesis Submitting in Sept 2013)

3. Ms. Shweta Agrawal

4. Mr. Chetan Awasthi,

5. Ms. Chaitali Uikey

6. Mr. Nitin Uikey

7. Mr. Ajay Tiwari

Following teachers have attended faculty recharge programs at Academic Staff   College:-

1. Mr. Ajay Tiwari (08/09/2005 to 05/10/2005): Orientation Course

1. Mr. Ajay Tiwari (01/06/2006 to 21/06/2006): Refresher Course

1. Mr. Nitin Uikey (06/02/2008 to 04/03/2008): Orientation Course

2. Mr. Nitin Uikey (20/07/2012 to 09/08/2012): Refresher Course

3. Ms. Archana Chaudhary (18/01/2012 to 7/02/2012): Refresher Course

4. Mr. Hitesh Ninama (28/01/2012 to 24/02/2012): Orientation Course

5. Ms. Chaitali Uikey (05/12/2012 to 24/12/2012): Refresher Course

b. Teachers sent for attending conferences and workshops

28.   Student projects
      percentage of students who have done in-house projects including inter-departmental projects.

S.No.	Course	%of projects done at Corporate	% of projects done in R&D labs	% of projects done in-house*
1	MCA	25	5	70
2	M.Tech	25	25	50
3	M.Sc.	10	10	80

*In-house projects are done for the local industries also, but are

developed under the guidance of faculty members in the department.

The students are permitted for final year projects only with premier companies like TCS, WIPRO, INFOSYS, Accenture, if selected by these companies.

All other students do in-house projects within the department under the guidance of faculty members.

/ percentage of students doing projects in collaboration with other universities / industry / institute .

11 M.Tech. projects are completed in collaboration with RRCAT

2 M.Tech students sent for training in INFOSYS in Jan 2013

15 MCA students sent for training at Accenture.

MCA students selected through campus often do their sixth semester project in the company.

29. Awards / recognitions received at the national and international level by :
   - Faculty

2009-2013

- **Dr. Raj Kamal**
  - A research paper with Savita Kolhe, H. S. Saini and G.P. Gupta has been given best paper award by Indian society & Agricultural Sciences.2012

- **Dr. (Mrs.) Maya Ingle**
  - All India Association of Information Technology awarded recognition of dedication, outstanding performance, lasting contribution and excellent services in IT sector, 15 November 2007.

- **Dr. D. S. Bhilare**
  - Invited as a conference chair in 2nd IEEE International Conference on educational and Information Technology,

held during 17-19 September, 2010 [ICEIT – 2010], Chongqing, China.

- o Programme Committee Chair: IEEE, International Conference on Information and Computer Networks ICICN 2011, International Conference on Information and Education Technology ICIET 2011 January 26-28, Guiyang, China

- **Dr. Priyesh Kanungo**

  - o Best paper award of the conference: "On Trust Management and Reliability Issues in Distributed Scheduling Algorithms," International Conference on Advance Computing and Utility and Cloud Computing (ICoAC), 14-16 December, Anna University, Chennai in Association with IEEE Chennai section 2010. (Paper available on in IEEE Xplore).

  - o Best paper award of the session: "Dynamic Load Balancing Algorithm for Scalable Heterogeneous Web Server Cluster with Content Awareness," 2nd International Conference on Trendz in Information Sciences & Computing, (TISC) 2010, Satyabhama University, Chennai, India, pp. 143-148 (Print ISBN: 978-1-4244-9007-3, Paper available on IEEE Xplore, Digital Object Identifier: 10.1109/TISC.2010.5714626).

- **Ms. Preeti Saxena**

  - o Received Gold Medal from Devi Ahilya University, Indore for securing First position in M.Tech. (Computer Science) 2009.

- **Mr. Ajay Tiwari**

  - o Best paper award of the session: "Dynamic Load Balancing Algorithm for Scalable Heterogeneous Web Server Cluster with Content Awareness," 2nd International Conference on Trendz in Information Sciences & Computing, (TISC) 2010, Satyabhama University, Chennai, India, pp. 143-148 (Print

ISBN: 978-1-4244-9007-3, Paper available on IEEE Xplore, Digital Object Identifier: 10.1109/TISC.2010.5714626).

- **Dr. Hemant Mehta**
  - Best paper award of the conference: "On Trust Management and Reliability Issues in Distributed Scheduling Algorithms," International Conference on Advance Computing and Utility and Cloud Computing (ICoAC), 14-16 December, Anna University, Chennai in Association with IEEE Chennai section 2010. (Paper available on in IEEE Xplore).

- **Ms. Pritika Bahad**
  - Received third prize in Six day workshop "Robocamp 2011" held at IIIT, Hyderabad for designing "Low Price Household Smoke detector".

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Annual Function : Genesis- Regular Activity

Blood Donation Camp- Regular Activity

Best Teaching Award – Annual Regular Activity

Foreign Students visiting SCSIT Campus- 18/07/2009

Seminar on "Language and IT" Prof R.C. Sharma-Korea-February 2013

Campus Cleaning- 14th February, 2013

Workshop on e-Governance: Issues & Challenges Dec 15, 2012 (Above)

Motivational Lecture by Alumni: Mr. Shiv Shambhu Tiwari- 13th August, 2013

Inter UTD Presentation Competition "Information is Power" 14th August, 2013

Workshop on Ethics Issues in Paper Setting and Evaluation Sep 26, 2012

2008

- Seminar presented on "**Mobile Databases**" by Dr. Vijay Kumar ,University Of Missouri-Kansas City, JAN,08.

- Seminar presented Dr. Dr. Suneeta Sane, Professor and Head, Computer Technology Department, V.J.Technological Institute, Mumbai on "**Location aware Mobility based Database Applications**" at Indore University- March, 2008.

- Organized Dr. R.K. Saxena Memorial **Mathematics workshop** consecutively for three years 2006, 2007 and 2008.

- Seminar Presented by Dr. Suresh Kumar (IIT Mumbai) on **"Software Engineering"**, March-2008.

- **National Conference on Architecturing Future IT System (NCAFIS'08)** organized by School of computer Science & IT, DAVV Indore during October 17th -18th, 2008. Funded by DST with a grant of Rs. 75,000/-.

- Workshop on **"Information Architecture (WIA'08)"** key speakers Mr. Animesh Saxena, Web-Dunia, Indore, Dr. P. K. Chande, Group Director, TRUBA College, Dr. A. K. Ramani, Head SCSIT, DAVV, Indore, 12th November, 2008.

2009

- Workshop on **"Modern Telecommunications Engineering"** by Mr. Parag Mahajani, TechMahindra, Pune, Feb 12-13, 2009.

- Workshop on **"Software Component Technology"** by Prof. T.V.Gopal, Anna University, Chennai, March 28, 2009.

- Workshop on **"Data Mining using PASW Modeler"** by SPSS, 31st July 2009.

- A PG colloquium on **"Information Architecture"** different phase of ADM was held on 4 Nov 2009 the full day workshop.

- Seminar Presented by Prof. Raj Kamal (Ex-Vice Chancellor, DAVV) on topic **"Embedded Mobile System"**.

2010

- A research based seminar **"Emotion based Natural Language Processing"** by Dr. Maya Ingle June 28, 2010.

- A Seminar on **"Quality of Services in Wireless Networks"** by Mrs. S. Kher, Asstt. Prof., Arkansas University, USA on 23rd July, 2010.

- One Day Workshop on **"Career opportunities in CS & IT"** by ICEIT- DAVV Indore, 1 October, 2010.

- Seminar on **"Information architecture"** by Anurag Mandloi, 11 Nov 2010.

- IT Project Competition 2010 (State level), 21-23 Oct 2010.

- Seminar on **"Cloud computing and Mobile databases"** by Prof. Vijay Kumar,16th Dec 2010.

2011

- Expert Lecture on **"Yoga for IT professionals"** by Mr. Vimal Vyas, Ex-employee, Wipro Systems Ltd. 9 April 2011.

- Expert Lecture on **"Domain Specification Modeling"** by Prof. Chandrashekaran, NIT Suratkal on July 1, 2011.

- Expert lecture on **"Fuzzy Systems and Expert Systems"** by Dr. H.S. Saini, 11 July 2011.

- Expert Lecture on **"Resource Management in Mobile Peer to Peer Computing"** by Prof. Sanjay K. Madria, Missouri University of Science & Technologies, July 21, 2011.

- Workshop on **"New directions in information and communication opportunities"**, 15th September 2011.

- Workshop on **"Fun with Matlab"**, by Mr. Ram Hablani on 22nd November 2011.

- Seminar on **"The great mind challenge on software development competition"** by T. V. Gopal on 26th and 27th August 2011.

- A guest lecture by Dr. H.S. Saini on **"Fuzzy Systems and Expert Systems"**, 11 July 2011.

2012

- Seminar on **"Information Security and Ethical Hacking"** by APPIN TECHNOLOGY LAB, Indore,10th January, 2012.

- One day Workshop by Dr. Maya Ingle on **"Language Theory"**, 25th January 2012

- Presentation on **"Student Visa for US"** in MMT-02. Speaker: Ana Himelic, Vice Consul, from US Consulate General 9th Feb, 2012 at 4:30 p.m,

- **"Motivational lecture"** by Mr. Sandeep Atre on 1st February 2012.

- Workshop for **"Campus Selection"** by Edgemakers, 11th Feb, 2012 .

- Organised one day workshop on **"Teaching Methodologies in Database & Data Mining"** on 13th Feb, 2012.

- One day workshop on **"Mobile Computing"** on March 5, 2012.

- Workshop on **"Automated Testing Tools & Techniques"** by Mr. Ashok Holani, 14th April, 2012.

- One day workshop on **"Interview Preparation"** by Mr. Parakram Singh from CH Edgemakers, 18th August, 2012.

- One Day "**Orientation Program for I year students**" by Mr. Prakhar Shukti from CH Edgemakers, 22nd August, 2012.

- **"Campus Buzz"** Mr. Prakhar Shukti from CH Edgemakers,22nd August, 2012

- One day workshop on **"Quality Issues in Academics, Paper Setting and Valuation"** on 26 September, 2012.

- Cultural program twice by **SPIC – MACAY in** September 2012 and February, 2013
- One day workshop on "**Come Out of Shell"** by Mr. Rajan Deshmukh (Renowned Theatre artist) & his team, 3rd October, 2012.
- Conducted **"English Language LAB classes"** for 290 students of various departments of university by Mr. Gaurav Shrivastav, 29th Oct to 09th November2012:

- One day workshop by Mr. Ram Hablani on **"Career Opportunities in CS and IT"**,   22nd Nov. 2012.

- Workshop on "Issues and Challenges in e-governance", 15th December, 2012, funded by MITI with a grant of Rs. 2.0 lacs.

2013

- Lecture on Text Mining & motivation for Ph.D. students on Jan 17, 2013 by Dr Hemant Jain , University of Wisconsin, USA.
- Lecture on "Language & IT": 11th Feb,2013- **Prof. R.C. Sharma KOREA**
- Cultural program twice by **SPIC – MACAY in** February, 2013

31. Code of ethics for research followed by the departments

Code of Ethics in Research

(1) Research papers in standard journals

(2) Respect for Intellectual property rights of individuals and institutions

(3) Follow the principles of Ethics, Values and Social Responsibilities.

32. Student profile programme-wise:
2010 (M.P. Domicile)

Name of the Course (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male Female
UG	512	135	131	Toppers take admission at SCSIT
PG	520	181	168	Toppers take admission at SCSIT
M.TECH	543	51	26	Above 90 percentile

2010 (Other States)

Name of the Course (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male Female
UG	8	2	6	Toppers take admission at SCSIT
PG	9	2	7	Toppers take admission at SCSIT
M.TECH	18	2	6	Above 90 percentile

2011(M.P. Domicile)

Name of the Course (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male Female
UG	275	83	92	Toppers take admission at SCSIT
PG	344	142	102	Toppers take admission at SCSIT
M.TECH	256	30	20	Above 90 percentile
Ph.D.				

2011(Other State)

Name of the Course (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male Female
UG	18	2	6	Toppers take admission at SCSIT
PG	18	2	8	Toppers take admission at SCSIT
M.TECH	14	2	2	Above 90 percentile

2012(M.P. Domicile)

Name of the Course (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male Female
UG	246	72	74	Toppers take admission at SCSIT
PG	323	106	117	Toppers take admission at SCSIT
M.TECH	124	11	13	Above 90 percentile
Ph.D.				

Name of the Course (refer to question no. 4)	Applications received	Selected Male	Selected Female	Pass percentage Male Female
UG	8	1	7	Toppers take admission at SCSIT
PG	4	0	4	Toppers take admission at SCSIT
M.TECH	7	2	5	Above 90 percentile
Ph.D.				

33.   Diversity of Students:

Name of the Course	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BCA	NA	NA	NA	0
MCA	60	39	1	
M.Sc.(CS/IT) + MBA(CM)	63	27	10	
M.Tech.	5	86	9	
Ph.D.	50	30	18	2

34.   How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

   - Year-Wise List is attached (21)

Ms. Yasmin Sheikh cleared NET examination, 2009

Mr. Vivek Shrivastava cleared NET examination, 2010

Mr. Mohit verma   cleared NET examination, 2012

Ms. Shweta Agrawal cleared NET examination, 2012

All students taking admission in M.Tech. regular programme are GATE qualified.

35. Student progression

Student progression	Percentage against enrolled
UG to PG	**95%**
PG to M.Tech.	**5%**
PG to Ph.D.	**2%**
Ph.D. to Post-Doctoral	1%
Employed • Campus selection • Other than campus recruitment	40% 60% Year-Wise List of Campus selection attached(12)
Entrepreneurs	1%

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	**65**
from other universities within the State	25
from universities from other States	07
from universities outside the country	03

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 04 (2008-13)

   Dr Ugrasen Suman 2008
   Dr D.S. Bhilare July 2010
   Dr Hemant Mehta, 2011
   Dr Deepak Abhyankar 2013

38. Present details of departmental infrastructural facilities with regard to

   a) **Library:** 16,053 text books & reference books, 16 magazines and 5000 e-journals

   b) **Internet facilities for staff and students:** All desktops given to faculty and students are internet ready through 1 GBPS bandwidth available from IT Centre. Restricted internet access for students through security tools to preserve bandwidth for academic purposes.

   c) Total number of class rooms: 09

   d) Class rooms with ICT facility: 05

e) Students' laboratories: 05

f) Research laboratories**: 03**

The school has recently built up excellent infrastructure and learning resources in 2009 costing Rs. 10.0 crores. It is situated in the central area of Takshashila campus of Devi Ahilya University over an area of 7860 square meters which includes a large main building that accommodates both the administrative office and the academic block. It has seven lecture halls, two multimedia theaters and more than ten laboratories and the department library.

The lecture rooms are spacious and well ventilated. Each lecture hall is well equipped with white and black board out of which some are equipped with multimedia projectors. Dr. A. K. Ramani Memorial Hall has 240 seats and is used for organizing lectures, conferences and workshops by our department as well as other UTD's. Around 15-20 conferences/seminars and workshops are held every year. The lectures by eminent speakers are conducted for the benefit of the students and faculty members.

The administrative office includes reception area, office area and record keeping room. School has an Examination control room which facilitates record keeping of various examination's details and mark-sheets of students.

The school has more than two hundred and twenty computers which are made use of by both students and staff. The computer laboratories are well equipped and carefully maintained. They are categorized as Research Lab, Programming Lab-1, Programming Lab-2, Database and Data mining Lab, Networking Security Lab, Electronics Lab and Language lab. There is adequate facility for the students to perform all prescribed experiments and do project work. All the Pentiums are equipped with high computing speed and internet access capability. These facilities are in the continuous process of up gradation and augmentation. The computing facility and the software licenses support the laboratory experimentation in the subjects like RDBMS, Internet & Web technology, Artificial Intelligence, Computer Graphics, Software Engineering, Systems Programming, Data Warehousing & Data Mining, Object Oriented Analysis & Design, JAVA, .NET, & Computer Networks etc. to cater to the need of IT industry. The students are exposed to good projects during their project training. All the faculty members are provided with individual PC's, internet facility and the printer.

A large part of the campus is flourishing garden of more than 500 trees, ornamental plants and flowers. The grounds and gardens are beautifully and aesthetically kept. The maintenance is entrusted to staff that is sincere and committed and a maintenance coordinator supervises their performance.

The school has excellent facilities for sports. It has badminton courts and table tennis within the main block. The students share the football ground and cricket ground of Devi Ahilya University. The school encourages participation of students in sports and athletic competitions. Students have participated in State, Regional and National in various sports. They have exhibited high level of performance and have won awards at all levels.

The school shares a large university canteen used by both staff and students. The canteen is clean and spacious. Along with the canteen Indian Coffee House is also located in campus.

For the well being and convenience of staff and students, a medical center, day care centre, branch of State Bank of India and Post Office are situated within the campus.

The whole campus presents a sense of comfort, adequacy, modernity and learning.

Additional **English language lab** equipped with microphones and Clarity software are provided to students of all classes.

Computer Labs: 06

Servers: 05

No. of computers: 241

Internet and wifi facilty: Enabled on all computers

Multimedia Lecture theatres: 02

Multimedia enabled faculty meeting hall: 01

Projectors: 04 working

Library:

The School of Computer Science department library is fully automated library. It has 16,053 text books & reference books are available in the library. All the books of library are bar-coded and secured with RFID tags. RFID antennas are installed in the main entrance. SOUL 2.0 software is used for library automation. 1100 e lecture CDS with CD disk storage systems are available for all the member of the department. The library subscribes to 16 computer related magazines and 5000 e-journals. There are Six person/employee are working in the Library. Four books are provided to each students for 5 days. Three books are provided to SC/ST students category upto full semester. Total area of the library (in Sq. Mts.) is 575.05 Sq. Mts. The area is organized as Book Collection Room, Study Room, Project Report room, Book Circulation Counter, Book acquisition section, process section. The first floor contains Personal Reading Book section. The library has a budget of Rs. 5.0 lacs/year out of which 4.09 Lacs were spent for procurement of 1243 books in the year 2012-13. Over and above department library, central library is located nearby with ample budget to serve the needs of the students.

39. List of doctoral, post-doctoral students and Research Associates

S. No.	Name
1.	Ms Archana Chaudhary 13/10/2011
2.	Ms. Shweta Agarwal 16/11/2010
3.	Ms. Reena Gupta (New)
4.	Ms. Preeti Saxena 26/08/2010
5.	Mr. Sumit Jain 05/07/2010
6.	Ms. Nidhi Arora 05/05/2009
7.	Mr. B.K.Swamy 04/10/2010

8.	Ms. Yasmin Sheikh 30/06/2010	
9.	Ms. Vasanti Dutta 1/7/2010	
10.	Ms. Shraddha Masih 29/08/2009	
11.	Ms. Shweta Dharmadhikari 16/04/2010	
12.	Ms. Shilpa sharma 16/04/2010	
13.	Ms. Kirti Muley	
14.	Ms. Aayesha Butaliya 25/06/2010	
15.	Ms. Smriti Jain 12/08/2009	
16.	Mr. Ajay Tiwari 21/10/2008	
17.	Mr.Anand More 06/07/2010	
18.	Ms. Nikky Ahuja (New)	
19.	Mr. Vivek Shrivastava 12/10/2011	
20.	Ms. Anamika Joshi 06/09/2011	
21.	Mr. Mahakal Chandel 06/08/2011	
22.	Ms. Chaitali Uikey 17/07/2011	
23.	Mr. Sanjeev Shrivastava 28/08/2009	
24.	Mr. Vijyendra Niranjan 30/06/2010	
25.	Ms. Yakuta Tayyavi (New)	
26.	Mr. Sanjeev Kumar Sharma 28/08/2009	
27.	Mr. Rajat Bhandari 26/06/2010	
28.	Mr. Jitendra Chaudhari 30/06/2010	

29.	Mr. Nitin Uikey 06/07/2010
30.	Mr. Nitin Nagar 28/02/2011
31.	Ms. Maya Rathore 12/08/2011
32.	Ms Ritu Jain (New)
33.	Ms Sapana Pandit (New)
34.	Mr. Anil Patidar (New)
35.	Ms. Nidhi Dahale 02/07/2010
36.	Ms. Tejaswini Apte 16/09/2010
37.	Mr. Vishvadeep Tripathi 24/06/2010
38.	Mr. Apurva Gaiwak 23/02/2011
39.	Mr. Rajesh Sodhani 10/12/2010
40.	Mr. Manoj shrivastava
41.	Ms. Khushboo Ramani 18/10/2011

a) from the host institution/university
b)   from other institutions/universities: Nil

40. Number of post graduate students getting financial assistance from the university: The financial Aids to the students are provided as per state govt. rules. All the students belonging SC/ST/OBC admitted to the department are provided scholarship.

- Scholarship and fee reimbursement to ST/SC and OBC through State Government

- Three M.Tech. courses with specialization in 1. Computer Science, 2.Network Management & Information Security and 3. Software Engineering & Information Architecture run by the department are AICTE approved. All students taking admission in these M.Tech. courses in 2012-14 batch are GATE qualified and receive Rs. 8000/- per month as stipend as and when it is received from AICTE.

- One student received scholarship from minority cell and three students

receive financial assistance from the community they belong to.

- List of students given financial support by the university under earn-while-learn scheme and help in various library and office related activities:
    - Mr. Deepanshu Chore MBA(CM)
    - Shri Asif Multani   MCA
    - Shri Md. Ali Khan MCA
    - Shri Palash Agrawal MCA
    - MS. Hema Bagdi   BCA
    - Ms. Neha nagar   MCA
    - Ms. Ankita Pathak   MCA
    - Ms. Shilpa Sharma   MCA

Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Suggestion from technical experts, students and stakeholders were taken. Various key points like changing need of time, Global scenario of field and National level examination have been discussed. The issues are then discussed in departmental committee meetings for the need of changing the syllabus or introducing a new programme. Industrial requirements, topics from monthly ACM communications magazine (ACM member since 2004), and feedback from alumni used for curriculum design of new and existing programmes and their revision.

41. Does the department obtain feedback from

  a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?   Yes
      Assessment workshop is held every six months. Every faculty member is required to give presentation and share his strengths and weaknesses. Also, the achievements and difficulties faced are presented. Based on the feedback, the department committee utilizes the feedback for giving suggestions to the faculty members for improvement in the next semester.

b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
    Feedbacks are taken from students on regular basis. Feedbacks are analyzed and suitable measures are taken for further improvement.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?
    Feedbacks are taken from alumni.

42. List the distinguished alumni of the department (maximum 10)

S. No.	Name	Programme	Year of Passing	Current Status
1.	Hemant Naphde	MCA	1991	Current: Broker/Owner, Choice 1 Real Estate Richmond, Virginia Area	Real Estate Past: Salesperson at Eudailey and Company GMAC Real Estate, President and CEO at Accolade Business Consultants, Inc.
2.	Sanjeev Singhal	MCA	1989	Senior Executive at Oracle, USA
3.	Sanjay Chitale	MCA	1989	Co-Founder of Hov Enterprise Services, Inc. and serves as its President
4.	Ashutosh Kotiyala	MCA	1993	Assistant Vice President (Engineering) at Hughes Systique Corporation, New Delhi Area, India
5.	Vineet Grover	MCA	2001	Vice President, Microsoft Technologies at Paxcel Technologies Pvt. Ltd. New Delhi Area, India
6.	Megha Sakrekar	MCA	1991	
7.	Pramod singh Kushwah	MCA	1989	Addl. DCP/Crime
8.	Paridhi	MCA	1993	

	Bhatnagar			
9.	Hemant Sharma	M.Sc.(CS)	1995	Director of Engineering at Impetus Infotech (India) Pvt. Ltd. Noida Area, India
10	Sandeep Joshi	M.Sc.(IT)	2002	Technology Executive, Microsoft MVP and MSDN Author, Singapore
11	Nitin Gaur	MCM	2004	Current : Principal Consultant - Development, Melbourne Area, Australia Past Principal Consultant at SAP Labs, Systems Engineer at Siemens Information Systems Ltd
12	Dr. Hemant Mehta	MCA	2001	Post Doctoral Fellow at Ecole des Mines de Nantes, France. Assistant Professor at School of Computer Science and IT, Devi Ahilya University

43. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

2008

- Seminar presented on "**Mobile Databases"** by Dr. Vijay Kumar ,University Of Missouri-Kansas City, JAN,08.

- Seminar presented Dr. Dr. Suneeta Sane, Professor and Head, Computer Technology Department, V.J.Technological Institute, Mumbai on "**Location aware Mobility based Database Applications**" at Indore University- March, 2008.

- Organized Dr. R.K. Saxena Memorial **Mathematics workshop** consecutively for three years 2006, 2007 and 2008.

- Seminar Presented by Dr. Suresh Kumar(IIT Mumbai) on **"Software Engineering"**, March-2008.

- **National Conference on Architecturing Future IT System (NCAFIS'08)** organized by School of computer Science & IT, DAVV Indore during October 17th -18th, 2008.

- Workshop on **"Information Architecture (WIA'08)"** key speakers Mr. Animesh Saxena, Web-Dunia, Indore, Dr. P. K. Chande, Group Director, TRUBA College, Dr. A. K. Ramani, Head SCSIT, DAVV, Indore, 12th November, 2008.

2009

- Workshop on **"Modern Telecommunications Engineering"** by Mr. Parag Mahajani, TechMahindra, Pune, Feb 12-13, 2009.

- Workshop on **"Software Component Technology"** by Prof. T.V.Gopal, Anna University, Chennai, March 28, 2009.

- Workshop on **"Data Mining using PASW Modeler"** by SPSS, 31st July 2009.

- A PG colloquium on **"Information Architecture"** different phase of ADM was held on 4 Nov 2009 the full day workshop.

- Seminar Presented by Prof. Raj Kamal (Ex-Vice Chancellor, DAVV) on topic **"Embedded Mobile System"**.

2010

- A research based seminar **"Emotion based Natural Language Processing"** by Dr. Maya Ingle June 28, 2010.

- A Seminar on **"Quality of Services in Wireless Networks"** by Mrs. S. Kher, Asstt. Prof., Arkansas University, USA on 23rd July, 2010.

- One Day Workshop on **"Career opportunities in CS & IT"** by ICEIT- DAVV Indore, 1 October, 2010.

- Seminar on **"Information architecture"** by Anurag Mandloi, 11 Nov 2010.

- IT Project Competition 2010 (State level), 21-23 Oct 2010.

- Seminar on **"Cloud computing and Mobile databases"** by Prof. Vijay Kumar,16th Dec 2010.

2011

- Expert Lecture on **"Yoga for IT professionals"** by Mr. Vimal Vyas, Ex-employee, Wipro Systems Ltd. 9 April 2011.

- Expert Lecture on **"Domain Specification Modeling"** by Prof. Chandrashekaran, NIT Suratkal on July 1, 2011.

- Expert lecture on **"Fuzzy Systems and Expert Systems"** by Dr. H.S. Saini, 11 July 2011.

- Expert Lecture on **"Resource Management in Mobile Peer to Peer Computing"** by Prof. Sanjay K. Madria, Missouri University of Science & Technologies, July 21, 2011.

- Workshop on **"New directions in information and communication opportunities"**, 15th September 2011.

- Workshop on **"Fun with Matlab"**, by Mr. Ram Hablani on 22nd November 2011.

- Seminar on **"The great mind challenge on software development competition"** by T. V. Gopal on 26th and 27th August 2011.

- A guest lecture by Dr. H.S. Saini on **"Fuzzy Systems and Expert Systems"**, 11 July 2011.

2012

- Seminar on **"Information Security and Ethical Hacking"** by APPIN TECHNOLOGY LAB, Indore,10th January, 2012.

- One day Workshop by Dr. Maya Ingle on **"Language Theory"**, 25th January 2012

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- **"Motivational lecture"** by Mr. Sandeep Atre on 1st February 2012.

- Workshop for **"Campus Selection"** by Edgemakers, 11th Feb, 2012 .

- Organised one day workshop on **"Teaching Methodologies in Database & Data Mining"** on 13th Feb, 2012.

- One day workshop on **"Mobile Computing"** on March 5, 2012.

- Workshop on **"Automated Testing Tools & Techniques"** by Mr. Ashok Holani, 14th April, 2012.

- One day workshop on **"Interview Preparation"** by Mr. Parakram Singh from CH Edgemakers, 18th August, 2012.

- One Day "**Orientation Program for I year students**" by Mr. Prakhar Shukti from CH Edgemakers, 22nd August, 2012.

- **"Campus Buzz"** Mr. Prakhar Shukti from CH Edgemakers,22nd August, 2012

- One day workshop on **"Quality Issues in Academics, Paper Setting and Valuation"** on 26 September, 2012.

- Cultural program twice by **SPIC – MACAY in** September 2012 and February, 2013

- One day workshop on "**Come Out of Shell**" by Mr. Rajendra Deshmukh (Renowned Theatre artist) & his team, 3rd October, 2012.

- Conducted **"English Language LAB classes"** for 290 students of various departments of university by Mr. Gaurav Shrivastav, 29th Oct to 09th November2012:

- One day workshop by Mr. Ram Hablani on **"Carrier Opportunities in CS and IT"**,   22nd Nov. 2012.

- Workshop on "Issues and Challenges in e-governance", 15th December, 2012

2013

- Lecture on Text Mining & motivation for Ph.D. students on Jan 17, 2013 by Dr Hemant Jain , University of Wisconsin, USA.
- Lecture on "Language & IT": 11th Feb,2013- **Prof. R.C. Sharma** KOREA
- Cultural program twice by **SPIC – MACAY in** February, 2013
- Workshop on Cloud Computing Sep 6-7, 2013, planned with support of TCS
- Workshop on Data Analytics Nov 15-18, 2013 planned with grant of Rs. 4.5 Lacs from IMPECS, Germany.

44. List the teaching methods adopted by the faculty for different programmes.
   - Lectures

   -Tutorial

   -Quizzes

   -Projects

   -Case Studies

   -Research

The one or more of the teaching methods adopted by the faculty is based upon expected learning outcomes. These methods adopted are given in detail in the course plan prepared by the faculty for the student. The faculty besides black board teaching has adopted Power Point Presentation mode, especially for demonstration exercises. A large number of faculty members have switched to the power point presentation method of teaching from traditional blackboard teaching

45. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
   - Every teacher remains regularly in touch with senior teacher/professor for the guidance on teaching and improvement in the quality so as to meet programme objectives.
   - The Departmental Assessment workshop is held every six months.
   - The Departmental Academic Planning Committee controls the quality of assignments, lab assignments and the question paper so as to ascertain to what extent programme objectives are met?

Programme Objectives and Learning Outcomes:

Programme	Objectives	Learning Outcomes
M.Tech CS/ Network management & Software Engineering	The objective of the course is to prepare professionals who have strong conceptual knowledge and prepared to take up challenging teaching, R & D or corporate assignments	• Strong theoretical foundation and conceptual knowledge in computer & related subjects of specialization • Ability to take up challenging research assignments leading to Ph.D. degree from premier national/international universities • Ability to work in software companies and take up challenging software projects in cross cultural environment
MCA	The objective of the course is to prepare professionals who can develop, deploy, customize & maintain software applications	• Strong conceptual knowledge in Computer Architecture, Programming, Database management Systems, Software Engineering, Object Oriented Modelling & Networking

	related to business & scientific domain.	• Employable in Software Companies at Global level • Ability to work in a team environment on challenging software projects. • Ability to take up challenging research projects in the area of database, networking & data mining in R & D organizations at global level
M.Sc. CS	The objective of the course is to prepare professionals who can develop, deploy, customize & maintain software applications particularly in business & scientific domain.	• Strong conceptual knowledge in Computer Architecture, Programming, Database management Systems, Software Engineering, Object Oriented Modeling & Networking • Employable in Software Companies at Global level • Ability to work in a team environment on challenging software projects. • Ability to take up challenging research projects in the area of database, networking & data mining in R & D organizations at global level
M.Sc. IT	The objective of the course is to prepare professionals who can manage, develop, deploy, customize & maintain ICT infrastructure using software tools & techniques particularly in business & scientific domain.	• Strong conceptual knowledge in Computer Architecture, Programming, Database management Systems, Software Engineering, Object Oriented Modelling & Networking • Employable in Software Companies at Global level • Ability to work in a team environment on challenging software projects. • Ability to take up challenging research projects in the area of database, networking & data

		mining in R & D organizations at global level
MBA (CM)	The objective of the course is to prepare professionals who can manage, develop, deploy, customize & maintain ERP applications & ICT infrastructure using software tools & techniques particularly in business domain.	• Introductory knowledge in Computer Fundamentals, Programming, Database management Systems, IT Infrastructure Planning & Management, Enterprise Resource Planning • Strong theoretical foundation, conceptual knowledge and skill based practical training in enterprise resource planning (ERP) • Ability to work in a team environment on challenging software projects in ERP domain.

The school has constituted following monitoring committee to ensure that objectives of the programmes are met:

1. Dr. S. Tanwani   Head & Chairman
2. Dr M. Ingle   Professor
3. Ms. Preeti Saxena   Reader
4. Ms. S. Masih   Reader

46. Highlight the participation of students and faculty in extension activities.

- Blood Donation Camp on Sep 5, 2010 & 2011
- Training Programme for senior citizens, June 2009.
- Training programme on Database & Data mining in July 2010 attended by 60 selected participants.
- Software for Sindhu Sahkari bank, Indore developed & maintained by MCA students.
- Software for Blood Donor organization developed & maintained by MSC Computer Science.
- Seminar on 'Disaster Management' by Disaster task Force, Ahmedabad, Feb 17, 2012.
- Training programme for Blind students with support of NTPC

foundation, June 2013

- Training programme for non ICT faculty members with support of Microsoft India Pvt. Ltd., June 2013.

- The students help poor through a sanstha called 'samarpana'. Old clothes, sweets are collected from students and given to poor in nearby slum areas.

- Seminar on "Tobacco and its harms"…………… by Indian Dental Association and Dental College for UTD students organized by Dr Nema of Dental College, Indore.

- Seminar on **"Women Health and Well Being"** By- **Dr. Prerna Jain**(Gynaecologist & FOGSI member) was organized on 21st Feb, 2013.
  The doctor gave an awareness lecture on women health issues and also solved the health queries of many girls. About 250 girls from the department were benefitted.

48. Give details of "beyond syllabus scholarly activities" of the department.
    - Expert Lectures by eminent professors in the area. The list of experts who have visited the department and have delivered lectures are:
      1. Dr A P J Abdul Kalam, Former President , Govt of India, June 13, 2013
      2. Prof. M.S.Sodha, Padamshri, Ex-Vice Chancellor, DAVV & Lucknow, June 17, 2013
      3. Dr D B Phatak, Padamshri, IIT Mumbai, April 26, 2013
      4. Dr Vijay Bhatkar, I^{2}IT, Pune
      5. Dr H. M. Gupta, IIT Delhi(Twice every year)
      6. Dr Ajoy Ghatak, IIT, Delhi, July 18, 2009
      7. Dr Kehar Singh, IIT, Delhi, July 18, 2009
      8. Dr N L Sarda, IIT, Mumbai,
      9. Dr Hemant Jain, Univ. of Wisconsin, Jan 17, 2013
      10. Dr K S Sharma, Univ of South Korea, Feb 2013
      11. Dr Narendra Gore, IBM, Pune, Oct 2008
      12. Dr Y.N. Reddy, Indraprashta University, Delhi.
    - Programming competitions, best software project awards during TechFest
    - IdeaMela to promote newer & innovative ideas in Information

Technology area

- Regular research paper & technical report presentations
  (Dates mentioned in file: "Seminars/Workshops/Conferences organized")

- Participation in blood donation camps

- Campus cleanliness drive: weekly cleaning and removal of polythene bags by the students.

- Green campus drive at department as well as university level

- Active participation of the department in cleanliness drive initiated by the university for khan river.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Yes, The department is approved by AICTE. MCA & Mtech programmes are approved by AICTE. All other programmes are state approved with ordinances.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The Devi Ahilya University is one of the pioneers in starting the computer department way back in 1986, when only few universities in the country were given sanction by UGC/DOE to start the MCA programme. After one year in 1987, the Defence Research Development Organisation sanctioned M.Sc. Computer Science programme with an intake of 30 seats. The M.Sc. computer science passouts were directly given employment as Scientist Grade B in DRDO. The department faculty was actively involved in starting new programmes & other departments of the university. Some of the departments are:

1. School of Electronics and started MSc. Electronics in 1992
2. Started interdisciplinary M.Tech. programmes like M.Tech Embedded Systems (2002), M.Tech. Spatial Information Technology (2007) & M.Tech. Mobile Computing (2008) with School of Electronics.
3. Started 6 year integrated MCA programme in 1992 at International Institute of Professional Studies, which now has a number of courses in Computer and Management with 2200 students.
4. Started an Engineering College in 1996 with active support from the faculty members of the School of Computer Science & IT.

We are one of the first in the country to start innovative programmes like M.Tech. Information Architecture & Software Engineering in 2008. Also, the faculty members are guiding Ph.D. candidates and are permitted to submit their Ph.D. thesis only after contribution in premier journals and conferences in the form of research papers.

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Ms. Shraddha Masih

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Ms. Preeti Saxena

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Dr. Hemant Mehta

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Mr. Deepak Abhyankar

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.Mr. Nitin Uikey

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51.   Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

1. Qualified faculty

2. Excellent infrastructure

3. Enriched library

4. Established teaching-learning practices

5. Good Journal publications

6. Excellent placement record

7. Curriculum revision as per industry requirements

8. Focus on soft skill development

9. Extra curricular activities in cultural and sports for overall development

10. High speed internet facility on every desktop

11. Every faculty given computer and internet for research.

Weaknesses:

1. Inadequate Permanent Faculty

2. Limited grants from State Government

3. Inclination of Brilliant students in recent years to engineering and MBA programmes has affected the quality of students intake in MCA courses.

4. Inadequate Laboratory Maintenance staff & personnel for new laboratories.

Opportunities:

1. Consultancy
2. Research
3. Student ex-change programmes
4. Developing scientific temper
5. Industry-institute linkages

Challenges:

1. Quality sustenance and enhancement by using virtual class room, webinars and use of simulation software
2. Generation of e-learning resources
3. Projects at MTech, MSc and MCA level in the area of e-Governance

52. Future plans of the department.
- Improvement in quality of teaching-learning and research by virtual classrooms and webinars.
- Development of specialized laboratories for Image Processing and Network Security and enriching existing laboratories.
- Faculty members motivated to persue quality research and seek for UGC grants.
- Generation e-resources for various computer related subjects.

Write up of efforts for Quality Sustenance and Assurance in the department- B

Every subject has well defined objectives. All the assignments, lab assignments and question paper are framed keeping in mind the course objectives under the guidance of senior faculty members, which are imformally mapped to programme objectives. The course files are prepared by each faculty. Course plan of next semester is based on feedback from various stakeholders in previous semesters. The assessment workshop is held every six months. The feedback is analyzed by senior faculty members and they give suggestions for improvement in teaching-learning of the faculty and the analysis of the same later on, the faculty members are given suggestions to improve upon. Faculty members are regularly increasing their qualifications and are sent on advance training to premier institutions. Latest books are procured in the library for student theory and practical subjects as well as major projects. Laboratory is equipped with state-of-art computer systems and is regularly updated. In addition, special lectures were organized on following topics for quality enhancement:

1. Quality Issues in Academics and Ethics in paper Setting and Valuation on Sep 26, 2012
2. Fostering excellence in research Jan 15, 2013
3. Quality in Teaching-Learning processes May 10, 2013
4. Expert lecture on Choice Based Credit System (C.B.C.S.) given by Prof. Rege, Govt. Engineeering College, Pune on May 15, 2013
5. Great inspiration lectures were organized in University in 2012-13 as follows:

a. Bharat Ratna Dr APJ Abdul Kalam on Youth: Prospects & Challenges on June 13, 2013

b. Padamshri Dr M.S. Sodha, DSc, FNA Challenges in Higher Education June 17, 2013

c. Mahamana Madan Mohan Malviya Lecture Series:

   (i) Dr V K Singh, Ex-Vice Chancellor, APS University , REWA

Declaration by the Head of the Department- C

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the institution with seal:

Place: Indore   Date: 26.08.2013