

Self Study Report

School of Computer Science & Information Technology

1. **Name of the Department:** School of Computer Science & Information Technology (SCSIT), Faculty of Engineering Sciences
2. **Year of establishment :**1986

A.1 Academic programmes offered by the department at present, under the following categories and Sanctions Pertaining to each of the Courses.

Programmes	Number	Course/Subjects
UG	2	BCA, BCA(Hons.)
PG	7	Master of Computer Applications (MCA) M.Sc.(Computer Science), M.Sc.(Information Technology), MBA(Computer Management), M.Tech.(Computer Science), M.Tech.(Network Management & Information Security), M. Tech(Software Engineering & Information Architecture)
Integrated Masters		
M.Phil.		
Ph.D.	1	Computer Science
Integrated Ph.D.		
Certificate		
Diploma		
PG Diploma		
Any other (please specify)		
Total	10	

A.1.1 Details approval/recognition and recommendations issued by the statutory body (for example, UGC, AICTE, NCTE, PCI, MCI, DCI) governing the programme in case of Professional Programmes letters for the first time and Last Academic Year recognitions : Y Approvals attached in File No.

1. MCA programme running since 1986, first approval from AICTE dated 1995. Latest approval by AICTE for July 2013-14 session available online.
2. M.Tech Computer Science approved in 1992, Latest approval by AICTE for July 2013-14 session available online.

3. M.Tech. Network management & Information Security running since 2008, first approval from AICTE July 2010. Latest approval by AICTE for July 2013-14 session available online.
4. M.Tech. Software Engineering & Information Architecture running since 2008, first approval from AICTE July 2011. Latest approval by AICTE for July 2013-14 session available online.
5. M.Sc(CS), MSc(IT), MBA(CM), BCA, BCA(Hons) are university approved programmes, for which ordinances and university sanctions available.

If the department offers Distance Education Programmes (DEP) then number of programmes offered.

Name of Each Programme

Letters for approvals by the Distance Education Council.

A.2 Copy of Ordinances related to the courses in the department : Yes Attached in File No. _____

S.No.	Name of the course	Ordinance No.
1	BCA , BCA(Hons) & 6 Years Integrated MCA	45, 46
2	MSC (Computer Science)	47
3	M.Sc. (Information Technology)	80
4	Master of Computer Applications (MCA)	46
5	M.Tech. Computer Science	104
6	M.Tech. Network Management & information Security	198
7	M.Tech. Software Engineering & information Architecture	196
8	M.B.A.(Computer Management)	48

A.3 Number of working days during the last academic year.

208 days(2012-13)

Number of teaching days during the past four academic years.

2009-10
209 days

2010-11
198 days

2011-12
210 days

2012-13
208 days

("Teaching days" means days on which classes were engaged. Examination days are not to be included)

A.4 Number of positions in the Department, their appointment letters, joining reports and sanctions of Each

Positions	Teaching faculty			Non-teaching staff	Technical staff
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC / University / State Government	5	8	12		
<i>Recruited</i>	2	3	07		
<i>Yet to recruit</i>	3	5	05		
Number of persons working on full time temporary basis (Contractual)			11		
Total- 23	02	03	18		

A.4.1 Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							12
D.Sc./D.Litt.							
Ph.D.	2		1		1		04
M.Phil.							
PG				2	4	2	08
Full Time Temporary teachers							
Ph.D.							
M.Phil.							
PG					6	5	11
Part-time teachers (course MCA, M.Sc., MBA(CM)-visiting faculty)							
Ph.D.							
M.Phil.							
PG					3	6	9
Total-32							

Emeritus, Adjunct and Visiting Professors and their sanctions.

	Emeritus	Adjunct	Visiting
Number	-	-	-

Planned in 2013-14

Semester-wise Record of Courses Visiting Faculty and their Sanctions:
July-Dec, 2008 (40 to 50 hrs per semester)

S. No.	Name	Qualification	Class	Subject
1.	Jaya Thomas	ME	M.Tech.	Computer Sc.
2.	Ranu Runwal	M.Sc.(IT)	M.Sc.	Computer Sc.
3.	Rakhi Mulchandani	M.Sc.(CS)	M.Sc.	Computer Sc.
4.	Mr. Ankur Saxena	M.Sc.(CS)	M.Sc.	Computer Sc.
5.	Mr. Anil Kumar Mahra (SC)	MBA(CM)	MBA	Computer Sc.
6.	Mr. Kanchhedi lal Suryawanshi (SC)	MCA	MCA	Computer Sc.
7.	Mr. Neeraj Vijayvargiya	MFA	MCA	Financial A/C
8.	Ms. Jyoti Jadhvani	MFA	MSc	Financial A/C, Comm. Skills
9.	Ms. Pronita Mukherjee	MA English	MCA	English and Comm. Skills
10.	Ms. Kavita Singh Rajput	MA English	M.Sc.	English and Comm. Skills
11.	Dr.Rajni Relwani	Ph.D. (Hindi)	BCA	Hindi
12.	Dr. Apoorv Trivedi	Ph.D. (Physics)	BCA	Physics

July-Dec, 2009

List of visiting faculty

S. No.	Name	Qualification	Subject	Comment
1.	Mr. Arun Kumar Mathur	BE	Computer Sc.	ERP – MCA V
2.	Dr. P. K. Chande	Ph.D	Computer Sc.	M.Tech-I
3.	Mr. Sourabh Bhandari	M.S	Computer Sc.	M.Tech I
4.	Mr. Rajat Bhandari	M.E+3yr exp	Information Security	M.Tech-I
5.	Mr. Ankur Saxena	M.Sc.(CS)	Computer Sc.	Lab
6.	Mr. Kanchhedi lal Suryawanshi (SC)	MCA	Computer Sc.	Lab
7.	Mr. Rajesh Thakre	MBA(CM)	Computer Sc.	IT Centre
8.	Mr. Pradeep K. Jadhav	MCA	Computer Sc.	IT Centre

9.	Ms. Jyoti Jadhvani	MFA	Financial A/C	M.Sc&MBA(CM) III
10.	Ms. Sonal Bamb	MBA	Communication Skills	MCA I
11.	Ms. Reema Sukhija	MBA	Communication Skills	MBA(CM) I
12.	Ms. Smita Soni	MBA.	Communication Skills	M.Sc.(CS) I
13.	Ms. Pronita Mukherjee	MA English	Communication Skills	M.Sc.(IT) I
14.	Ms. Kavita Singh Rajput	MA English	English	BCA I
15.	Dr. Rajni Relwani	Ph.D. (Hindi)	Hindi	BCA I
16.	Dr. Abhay Kumar	Ph.D.	Bioinformatics	MATLAB - M.Tech
17.	Dr. Jyoti Bhojwani	Ph.D.	Bioinformatics	M.Tech(BI)
18.	Ms. Sneha Ajmera	M.Tech	Bioinformatics	M.Tech(BI)
19.	Dr. M.K. Mishra	Ph.D.(Mathematics)	Mathematics	BCA III
20.	Mr. Varun Kumar	M.Sc.(CS) pursuing	Lab assistance	Lab
21.	Mr. Rakesh Gaherwal	M.Sc.(CS) pursuing	Lab assistance	Lab
22.	Mr. Kamal Sharma	M.Sc(Elex&Comm)	Electrical&Electronics	BCA I
23.	Mr. Satyendra Kumar	M.Sc. (Electronics)	Electrical&Electronics	BCA I
24.	Ms. Kavita Ambwani	M.Sc.(Physics)	Physics	BCA I

**Jan-May, 2010.
Computer Science**

S. No.	Name	Qualification	Subject	Comment
1	Dr. P. K. Chande	Ph.D	Knowledge mgmt.	M.Tech II
2	Dr. Anil Rawat	Ph.D	Information Security	M.Tech II
4	Mr. Sourabh Bhandari	M.S	Software Technologies	M.Tech II
5	Mr. Rajat Bhandari	M.E+3yr exp	Information Security	M.Tech-II
6	Mr. Kuldeep Dwivedi	M.Tech	Computer Science	MCA/M.Sc. Projects

Allied subjects

S. No.	Name	Qualification	Subject	Comment
1.	Dr. Rajendra Singh	Ph.D	Legal Aspects of IS	M.Tech.(NM)
2.	Ms. Sonal Bamb	MBA	Communication Skills	MCA II
3.	Ms. Reema Sukhija	MBA	English Language	BCA II
4.	Ms. Smita Soni	MBA.	Communication Skills	M.Sc.(CS) II
5.	Ms. Jyoti Jadhvani	MBA	Communication Skills	M.Sc.(IT), MBA(CM) II
6.	Dr. Rajni Relwani	Ph.D. (Hindi)	Hindi Language	BCA II
7.	Mr. Sawan Dubey	M.Sc.(IT)& M.Sc(Maths)	Mathematics	BCA II
8.	Dr. Jyoti Bhojwani	Ph.D.	Bioinformatics	M.Tech.(BI)
9.	Ms. Sneha Ajmera	M.Tech.	Bio-perl	M.Tech.(BI)
10.	Ms. Sharda Haryani	M.sc.(Mathematics)	Statistics & Probability	BCA IV
11.	Mr. Kamal Sharma	M.Sc(Elex& Comm)	Computer Architecture	M.Sc.(IT), MBA(CM) - II
12.	Dr. Seerwani	Ph.D.	Environmental Science	BCA IV

Lab Assistance

S. No.	Name	Qualification	Subject	Comment
1.	Ms. Mukta Jain	M.Sc.(CS)	Data Structures	MCA/M.Sc.
2.	Ms. Tarjani Savek	M.C.A.	DBMS	MCA/M.Sc.
3.	Mr. Varun Kumar	M.Sc.(CS) pursuing	C Programming	M.Sc. /MBA(CM)
4.	Mr. Rakesh Gaherwal	M.Sc.(CS) pursuing	Visual Basic	M.Sc. /MBA(CM)
5.	Mr. Kanchhedi lal Suryawanshi (SC)	MCA	C Programming	BCA

Jan-May, 2011

List of visiting faculty : Computer Science

S. No.	Name	Qualification	Exp. In Yrs.	Subject	Comment
1	Dr. Anil Rawat	Ph.D	25	Network Security	Expert Lectures
2	Dr. P.K. Chande	Ph.D.	30	Software Technologies	Expert Lectures
3	Mr. Arun Kumar Mathur	BE	25	ERP	Expert Lectures
4	Mr. Sourabh Bhandari	M.S	03	Software Technologies	M.Tech II
5	Mr. Kuldeep Dwivedi	M.Tech	05	S/w Technologies	MCA/M.Sc./ M.Tech
6	Mr. Parmeshthi Raja Jain	M.C.A	02	Computer Science	MCA/M.Sc./ M.Tech
7	Mr. Anil Jain	M.Tech	20	Network Management	M.Tech/ MCA
8	Ms. Neha Bhatt	M.C.A	02	Information Systems	BCA -IV
9	Mr. Ashish Shah	M.Tech.	20	Advance Computer Architecture / VLSI	MCA/ M.Sc./M.Tech.

List of visiting faculty : Allied subjects

S. No.	Name	Qualification	Exp. In Yrs.	Subject	Comment
1.	Col. Devgirikar	Ph.D	35	Communication Skills	Expert Lectures
2.	Ms. Sonal Bamb	MBA	15	Org. Management	MCA II
3.	Ms. Reema Sukhija	MBA	03	English Language, Org. Management	BCA II M.Sc.(IT) II, MBA(CM) II
4.	Ms. Smita Soni	MBA.	05	Org. Management	M.Sc.(CS) II
5.	Ms. Jyoti Jadhvani	MBA	07	Org. Management	MCA II
6.	Dr. Rajni Relwani	Ph.D.	08	Hindi Language	BCA II

		(Hindi)			
7.	Dr. Jyoti Ratnawat	Ph.D.	01	Environmental Science	BCA IV
8.	Dr. Jyoti Bhojwani	Ph.D.	15	Bioinformatics	M.Tech.(BI) - II
9.	Ms. Sneha Ajmera	M.Tech.	02	Bio- Perl & BI Tools	M.Tech.(BI) - II
10.	Mr. Arun Gupta	M.Tech.	01	Bioinformatics- Algorithms	M.Tech.(BI) - II
11.	Ms. Namrata Khurana	M.Sc, M.Phil.	05	Bioengineering & Bioanalysis	M.Tech.(BI) - II
12.	Mr. Piyush Jain	M.sc.(IT)	07	Statistics & Probability	BCA IV
13.	Mr. Kamal Sharma	M.Sc(Elex & Comm)	05	Microprocessor & Assembly Lang., Computer Architecture	BCA - IV M.Sc.(IT) - II
14.	Ms. Ranu Runwal	M.Sc.(IT)	03	Electronic Circuits	BCA - II
15.	Ms. Pronita Mukherjee	MA	10	English Language	BCA II
16.	Mr. Sawan Dubey	M.Sc. (IT), M.Sc.(APP Maths)	05	Mathematics- II	BCA II
17.	Ms. Shilpa Katira	M.B.A	07	Statistics & Probability	BCA IV
18.	Mr. V. Nirajan	MCA, M.Sc(IT) London	05	Information Architecture	M.Tech II
19.	Mr. Rajesh Thakre	MBA(CM)	03	Web Design	IT Centre
20.	Mr. Nandkishore Bhuwade	M.C.A.	03	Web Designing.	IT Centre

Lab Assistance

S. No.	Name	Qualification	Subject	Comment
1.	Ms. Mukta Jain	M.Sc.(CS)	DBMS	MCA/M.Sc. II
2.	Mr. Rakesh Gaherwal	M.Sc.(CS) pursuing	C Programming	M.Sc /MBA(CM) II
3.	Mr. Kanchhedi Lal Suryawanshi (SC)	MCA	C Programming	BCA II

4.	Mr. Rajendra Rawat	MCA	C Programming	BCA II
5.	Mr. Vinod Azad	B.E. M.Tech. pusuing	Data Structures	MCA/M.Sc. II
6.	Mr. Rakesh Upadhaya	B.E. M.Tech. pusuing	DBMS	MCA II
7.	Ms. Vijeeta Jaiswal	B.E. M.Tech pusuing	Data Structures	BCA II
8.	Mr. Ravi Narayan Tripathi	MBA(CM)	DBMS	M.Sc./MBA(CM) II
9.	Mr. Jalaj Lohiya	B.Sc.	ITPM	LAB
10.	Mr. Piyush Songara	B.Sc.	ITPM	LAB

July-Dec, 2011

S. No.	Name, Designation & Organization	Qualification	Exp. In Yrs.	Subject	Comment
1.	Dr. P.K. Chande, Director, Truba Group of Inst.	Ph.D.	31	Software Technologies	Expert Lectures(Hon.)
2.	Mr. Kuldeep Dwivedi, Project Lead, Webdunia	M.C.A.	06	S/w Technologies	MCA/M.Sc./ M.Tech.
3.	Ms. Smita Soni	MBA.	06	Org. Management	M.Sc.(CS)
4.	Ms. Jyoti Jadhvani	MBA	08	Org. Management	MCA
5.	Dr. Rajni Relwani	Ph.D. (Hindi)	09	Hindi Language	BCA
6.	Mr. Piyush Jain	M.sc.(IT)	08	Statistics & Probability	BCA
7.	Mr. Kamal Sharma	M.Sc(Elex & Comm)	06	Microprocessor & Assembly Lang., Computer Architecture	BCA M.Sc.(IT)
8.	Ms. Pronita Mukherjee	MA(Eng)	11	English Language	BCA
9.	Mohd. Najeeb Hashmi	M.Com MBA	03	Financial Accounting	BCA
10.	Ms. Kavita Ambwani	M.Sc. Physics	04	Physics	BCA

Jan-May, 2012

S. No.	Name	Qualification	Subject	Class
1.	Ms. Jyoti Jadhvani	MFA	Organization and Management Concepts	MCA – II (A batch)

2.	Ms. Pronita Mukherjee	MA English	English Language and Composition	BCA - II
3.	Mr. Piyush Jain	M.Sc.(IT)	Statistics and Probability	BCA - IV
4.	Ms. Smita Soni	MBA	Organization and Management Concepts, Entrepreneurship	M.Sc.(CS/IT) – II BCA - VI
5.	Ms. Deepa Katiyal	MBA	Organization and Management Concepts	MCA – II (B batch)
6.	Mr. Ravi Narayan Tripathi	MBA(CM)	LAB	BCA-II, MCA/M.Sc.-II

Jul-Dec, 2012

S. No.	Name	Qualification	Subject	Class
1.	Ms. Jyoti Jadhvani	MFA	Accounting and Financial Systems	MCA – III (A & B batch)
	Dr. Rajni Relwani	Ph. D Hindi	Hindi Language	BCA – I
	Ms. Smita Soni	MBA	Principles and Practice of Management	BCA – V
	Ms. Deepa Katiyal	MBA	Communication Skills and Report Writing	MCA – I
	Mr. Ravi Narayan Tripathi	MBA(CM)	LAB	BCA-I, MCA/ M.Sc.-I, MCA-V
	Ms. Kavita Ambwani	M.Sc.(Physics)	Physics	BCA – I
	Mr. Gagan Patidar	M.A. (English)	Communication Skills and Report Writing	M.Sc. – I
	Ms. Bhawna Pal	MBA	Principles and Practice of Management	BCA – V
	Mr. Gaurav Shrivastava	MBA	Communication Skills and Report Writing English Language Lab	MCA – I M.Sc.III/MBA(CM)I
	Dr. Ajay Chhabaria	Ph.D.	Financial Accounting	BCA – III
	Ms. Shruti Dubey	M.Tech. (SE & IA)	Information Architecture	M.Tech. – I
	Ms. Sheela Chaudhary	M.Sc.(CS)	LAB	BCA-V, MCA – I,
	Mr. Piyush Jain	M.Sc.(IT)	Mathematics-I	BCA – I

Jan-May, 2013

S. No.	Name	Qualification	Subject	Class
1.	Ms. Jyoti Jadhvani	MFA	Organization and Management Concepts	MCA – II, MBA(CM) - II
	Ms. Smita Soni	MBA	Entrepreneurship	BCA – VI
	Ms. Deepa Katiyal	MA (English), MBA	English Language & Composition, Organization and Management Concepts	BCA – II, MCA(Int.) – II
	Mr. Ravi Narayan Tripathi	MBA(CM)	LAB	BCA-II, MCA/MBA(CM)-II, MCA-IV
	Ms. Bhawna Pal	MBA	Entrepreneurship, Organization and Management Concepts	BCA – VI
	Mr. Gaurav Shrivastava	MBA	English Language Lab	MCA – IV (Vyapam), MCA – IV(Int.), BCA - IV
	Dr. Ajay Chhabaria	Ph.D.	Organization and Management Concepts	M.Sc(CS/IT) – II
	Ms. Sheela Chaudhary	M.Sc.(CS)	LAB	BCA-IV, BCA-VI, M.Sc.(CS/IT) - II
	Ms. Sunita Pal	M.Sc.(IT)	LAB	BCA-II, MCA/M.Sc. - IV
	Mr. Piyush Jain	M.Sc.(IT)	Statistics & Probability	BCA – IV
	Mr. Rana Pratap Singh	M.Sc.(Environmental Sc.), M.Phil.(Energy & Env.)	Environmental Awareness	BCA – IV

A.6 Copies of Latest Biodata of Faculty in positions in the Department : Y File No. A.6

A.7 1. Copies of Yearly Performa Based Assessment Records of Faculty in positions in the Department

Submitted to the University

2. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled
Professor	05	02
Associate Professors	08	03
Asst. Professors	12	07

3. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.) Y

Faculty Information : 2012-13

S. No	Name Address & Date of Birth	Present Post	Qualification & Specialization	No. of Yrs. Experience	No. of Ph.D. Students guided for last 4 yrs.	Date of Birth
1	Dr. Rajkamal 102, Urvashi Appartment, 126 Indrapuri, Indore	Professor, SCSIT	Ph.D - IIT Delhi, 1972 Post M.Sc. - IIT Delhi, 1967 M.Sc. - 1966 B.Sc. - 1964 Intermediate - 1962 High School -1960	46 Years	3	03-02- 1949
2	Dr. Sanjay Tanwani 58, Katja Colony,Near Collecterate, Indore	Professor & Head, SCSIT	Ph.D. ME (Computer Engineering) - 1990, SGSITS Indore, BE (Computer Engineering) - 1986, SGSITS, Indore	27	1	20-01- 1966
3	Dr. D. S. Bhilare Flat No. 3, University Teachers Quarter Khandwa Road, Campus, Indore	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	0	03-08- 1957

4	Dr. Mrs. Maya Ingle "Panchali", 6-A Vaishali Nagar, Annapurna Road, Indore (M.P.)	Professor/ Sr. System Analyst, Computer Centre	Ph.D. M.Tech (CS) - 1994 IIT Kharagpur M.Sc. (Statistics)	27 Years	6	22-06-1962
5	Dr. Priyesh Kanungo 05 Multi, University Quarters, Khandwa Road, Indore	Professor/ Sr. System Engineer, Computer Centre	Ph.D, M.E.(C.E.), M.Phil.(C.S.)	25 Years	1	16-06-1963
6	Dr. Arvind Kumar Goyal B-4, University Teacher's Quarters, Khandwa Road, Indore	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	0	31-03-1957
7	Dr. Ugrasen Suman School of Computer Science, DAVV, Khandwa Road, Indore	Reader, SCSIT	Ph.D, DAVV, - 2008, MCA-2001 RDVV Jabalpur-68%, B.Sc. - 1998 57% APS Univ. Rewa, 12th - 1995 58%, 10th 1993 66%	12 Years	1	10-05-1977
8	Ms. Preeti Saxena Agarwal Public School Campus, Bicholi Mardana Road, Indore.	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	23-10-1972
9	Ms. Shraddha Masih 105, Vaibhav Apatment, Amitesh Nagar Indore	Reader, SCSIT	M. Tech.(CS) SCS, DAVV- 2007 85% MCA 2004 IASE,GVM,Rajasthan - 85% MCM 2000 - 76%, DAVV B.Sc. 1997 -70% 12th 1993 - 76% 10th 1991 - 73%	13 Years	NA	29-09-1976

10	Mr. Ajay Tiwari, Wardens Residence IMS Boys Hostel, Khandwa Road, Indore	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% H.Sc. 1985 60%	Years	NA	30-04-1970
11	Dr. Hemant Kumar Mehta 44, Godbole Colony, Opp. Annapurna Temple, Indore	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	08-10-1975
12	Mr. Alok Tiwari, 64, Prikanko Colony, Annapurna Road, Indore	Programmer, Computer Center	MCA - 2001 64.1%, PDCA-1992 80%, Diploma in Civil Engg., 1985 70%, Matric - 1981 57.4%	23 Years	NA	25-05-1964
13	Mr. Nitin Uikey, 265, FH Scheme No. 54, Vijay Nagar, Indore	Software 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	13-12-1979
14	Dr. Deepak Abhyankar 5, Indrapuri Flat No. 302, Bombay Tower Bhavarkuwan Square, Indore	Software Engineer, SCSIT	Ph.D.-2013 M.Tech (CS)-2001 DAVV 78% MCA 1998 Jiwaji Univ. 68%, B.Sc. 1995 Vikram Univ. 61%, 12th 1992 73%	10 Years	NA	19-12-1975
15	Mr. Anand More 113, Greater Vaishali, Indore	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	06-07-1972

16	Ms. Archana Chaudhary, 'Usha Kiran' A-51, Vaibhav Nagar, Kanadia Road, Indore	Lecturer, SCSIT	M.Tech(CS) -2010 DAVV, SCSIT (CS)-1999 DAVV 72.77%, M.Sc. 1995 DAVV 66% 12th 1992 54.8%, 10th 1990 63%	12 Years	NA	22-07-1975
17	Ms. Chaitali Uikey Sch. No. 54 - FH. Vijay Nagar Indore	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	19-03-1980
18	Mr. Hitesh Ninama B-4, Sundarvan Colony, Ratlam	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	17-07-1984
19	Mr. Chetan Awasthi 2034-A, Sector-D, Sudama Nagar, Indore Indore 452006	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	19-05-1980
20	Ms. Shweta Agrawal 121,Pragati Nagar Near Rajendra Nagar Indore Indore 452012	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	11-03-1983

21	Mr. Pankaj Jagtap 106, Marathi Mohalla Indore 452006	Lecturer, SCSIT	M.Tech (Network Management) - 2010 - SCSIT DAVV, 76%, M.Sc(Electronics) - School Of Electronics DAVV 65%	4 Years	NA	21-03-1981
22	Ms. Tarjani Sevak 61 Ahilya Nagar Main Annapurna Road Indore 452009	Lecturer, SCSIT	MCA -2009 - IIST RGPV 70.62%, B.Sc(Computer Science) - M.B.Khalsa College DAVV 51.61%	4 Years	NA	01-06-1985
23	Ms.Sunita Gaur School Of Computer Science Indore 452017	Lecturer, SCSIT	M.Tech (CS) - SCSIT DAVV, Indore 74.39%, B.Sc (Comp & Maths) Victoria University Victoria University Australia 65%	11 Years	NA	11-09-1971
24	Ms. Pritika Bahad 22,Viveknagar, Dewas 455001	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	07-11-1982
25	Mr. Shantilal Dawar A 9 Bistan Road Sunder Nagar Khargone 451001	Lecturer, SCSIT	ME (Pursuing), BE(IT) - S.G.S.I.T.S Indore RGPV 65.27%	3 Years	NA	15-09-1985
26	Ms. Deepika Rai F-2,Ankur Awas Grah,Navlakha Indore 452001	Lecturer, SCSIT	MCA - SCSIT DAVV, Indore 74.46%, B.Sc(CS) - Christian Eminent College DAVV, INDORE 69.2%	3 Years	NA	27-11-1987

27	Mr. Mohit Kumar Verma School of Computer Science&IT DAVV, Khandwa RoadCampus, Indore	Lecturer, SCSIT	MCA - 70.24% SVITS, RGPV BCA - 75.84% 12th - 72.88% 10th - 68.4%	4 Years	NA	10-06-1984
28	Mr. Kanchedi Lal Post Bilehari ,Tehsil Rithi District Katni	Lecturer, SCSIT	M.Tech(MCT) - 2011 -73.79% SOEx DAVV MCA - 64.55% SCS&IT B.Sc - 52.94% 12th - 69.33% 10th - 76.6%	5 Years	NA	12-12-1978
29	Mr. Praveen Shrivastava 51 Greater Tirupati colony, Near St. Paul School, Indore (M.P)	Lecturer, SCSIT	MCA - 75% IASE,GVM,Rajasthan M.Sc.(CS) - 65% SCS,DAVV BCA -52% 12th - 63% 10th - 75%	11 Years	NA	29-06-1973

Contract Faculty who Left During 2008-12

1	Ms. Aarti Deshpande 108 Lig Vijaynagar Dewas 455001	Lecturer, SCSIT	M.Sc. (Computer Science) SCSIT DAVV 82.4%, B.Sc(Computer Science) Holkar Sc.College DAVV 68.8%	UR	NO	12-05-1983
2	Mr. Dharendra Kumar Verma, at Post Moyda, Tehsil. Pansemal Distt. Barwani	Lecturer, SCSIT	M.Tech(SE) - 2010 - SCSIT DAVV,Indore 85.97%, M.Sc.(CS) - SCSIT DAVV,indore 69% B.Sc.(CS) - Govt. PG College, Sendwa DAVV, Indore 61.11%	SC	NO	02-01-1984

3	Ms. Sushila Maravi 72, Main Vishnupuri Indore 452001	Lecturer, SCSIT	MCA SCSIT DAVV 75%, B.Sc(CS) - Home Sc.College Jabalpur Rani Durgawati Uni. 59%	ST	NO	06-07- 1984
4	Ms.Sarita Namdeo 109, Begam Pura, Ujjain 456010	Lecturer, SCSIT	M.Sc.(CS) Insti. Of Comp. Sc. Vikram Univ. Ujjain 70%, B.Sc.(Maths) G.D.C. Vikram Univ. Ujjain 59% B.Ed. Govt. College Of Edu. Vikram Univ. Ujjain 71%	OBC	NO	24-05- 1984
5	Mr. Satish Dhengle Room No : E9 RNT IIPS Boys Hostel Davv Indore 452017	Lecturer, SCSIT	M.Sc(Computer Science) SCSIT DAVV,Indore 88.15%, B.Sc(PCM) Regional Institute Of Education, Bhopal Barkatullah University,Bhopal 68.76%	OBC	NO	28-10- 1985

4. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors
Planned for the session 2013-14

5. Percentage of classes taken by temporary faculty – programme-wise information
each semester wise information: 34.4%

Percentage of classes taken by part time teachers – programme-wise each semester
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.

6. Programme-wise Student Teacher Ratio

$$\text{MCA} \quad 60 \times 3 = 180$$

$$\text{BCA} \quad 60 \times 3 = 180$$

$$\text{M.Tech.} \quad 20 \times 3 = 60$$

$$\text{M.Sc. (CS/IT)} \quad 60 \times 2 = 120$$

$$\text{MBA (CM)} \quad 30 \times 2 = 60$$

(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.

7. Number of academic support staff (technical) and administrative staff: sanctioned and filled

A.8 Students enrolled in the department during the current academic year, with the following details:

Students	UG		PG		Integra ted Master s		M.Tech.		Ph.D.		D.Litt./ D.Sc.	
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
From the state where the university is located	86	85	157	143	34	28	49	34	25	26		
From other states of India	6	2	8	2	0	0	2	2	4	3		
NRI students	-----		Nil---		-----		-----		-----		-----	
Foreign students	-----		Nil--		-----		-----		1	0	-----	
Total-697	92	87	165	145	34	28	51	36	30	29		

*M-Male *F-Female

Externally registered students?

Yes No

If yes, how many students avail of this provision annually?

A.7 Calculation of 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

Total Salary:

Post	Number	Salary	Total
Professor(Regular)	02	16,00,000/-	32,00,000/-
Reader(Regular)	01	12,00,000/-	12,00,000/-
Reader(Self-Finance)	02	12,00,000/-	24,00,000/-
Lecturer(Regular)	07	4,80,000/-	33,60,000/-
Lecturer(Contract)	11	2,59,200/-	31,08,000/-
Visiting Faculty(Part Time)	10	40,000/-	04,00,000/-
Non Teaching Salaries: Contract & Daily Wages	12	80,000/-	09,60,000/-
Non Teaching Salaries: Regular	08	1,36,529/-	16,38,348/-

		(Total monthly salary of these 08 employees)	
Total			1,62,66,348/-

The department has recently constructed a 10.0 crore building and additional one crore was spent on library & laboratories in 2011-12

Expenses on Salaries of Regular & Self Financing Faculty members: 1,62,66,348/-

Expenses on Security, Library & Equipments/Year: 20,00,000/-

Additional one crore spent during last 5 years for providing wired internet, WiFi, Licensed Softwares & Desktops during last 5 years comes to 20,00,000/- per year through grant of Rs. 20.0 Lacs as infrastructure grant, 25.0 Lacs grant from Department of Science & technology , Rs. 29.0 Lacs as equipment grant under UGC -SAP and school self-financing funds.

Total Number of Students: 638(UG+PG) + 59 Ph.D. Students = 697 students

(a) including the salary component = Rs. ...29077/-.

(b) excluding the salary component = Rs. ... 5739/-

A.8 A. Faculty recharging strategies

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. Dr. Deepak Abhyankar, August 2013

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 pursuing their Ph.D.

1. Ms. S. Masih, Distributed Data Mining
2. Ms. P. Saxena, Location based services on mobile
3. Ms. Shweta Agrawal
4. Mr. Chetan Awasthi,
5. Ms. Chaitali Uikey
6. Mr. Nitin Uikey
7. Mr. Ajay Tiwari

B. Number and list of faculty with course details of faculty development programmes, academic staff college programs or other faculty recharge programs

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

Dr. Rajkamal

2013

1. Knowledge Management in Expert System of Crop diseases, Savita Kolhe, Raj Kamal, Harvinder Singh and G.K. Gupta, International Journal on Advanced Computer Theory and Engineering ISSN (Print) : 2319 – 2526, Volume-2, Issue-4, 2013 [Also awarded best paper award]

2. Emerging Technologies in Random Access Memories, Manju K. Chattopadhyay, Raj Kamal, International Journal of Advances in Engineering Science and Technology, 2(1), pp.84-88, 2013 ISSN: 2319-1120

3. Presented paper “Suggested Quality Indicators for Services of Centers for Information Technology, Computers, Daycare and the hostel in Universities and Colleges”, Raj Kamal¹, Vrinda Tokekar², D. S. Bhilare³, Pratibha Sharma⁴, Paresh Atri⁵ and Jitendra Singh⁶ National Seminar on ‘Quality Assurance Practices in Higher Education: India and Canada’, Maharaja Sayajirao University of Baroda, Vadodara, 15-16 February, 2013

2012

1. Supriya Kelkar, Raj Kamal, “Control area network based quotient remainder compression-algorithm for automotive applications,” in proc. of IECON 2012, 38th Annual Conference of the IEEE Industrial Electronics Society, Montreal, Canada, October, 2012.

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3. Specification for security orchestration, Aradhana Goutam, Raj kamal, Maya Ingle Proceedia Engineering, 38, pp. 429-441, 2012 ELSEVIER, Amsterdam. Impact Factor 2.702 on the scale of 5, ISSN: 1877-7058

4. Service Integration towards Security Orchestration, Aradhana Goutam, Raj Kamal, Maya Ingle, International Association of Computer Science and Information Technology Press (IACSIT Press), [International Conference on Information and Education Technology (ICIET’12, Mumbai, 20th Jan 2012] 2(2), pages 179-184, 2012 ISSN: 2010-3689. Impact factor 4.8030

5. Quality Issues in Academics, Paper Setting & Valuation, Raj Kamal, Presented paper at Workshop On School of Computer Sciences and IQAC Devi Ahilya University, Sept. 26, 2012.

6. Innovative courses and programs with Self support a Best Practice of Devi Ahilya Vishwavidyalaya” Raj Kamal, Proc. National Workshop for IQAC-Coordiators of Universities, Bangalore, July 04-05, 2012.

2011

1. Orchestrator Model for System Security, Aradhana Goutam, Raj Kamal, Maya Ingle Advances in Computing, Communication and Control , Communications in Computer and Information Science, 125, pp 195-199, 2011, Springer Berlin Heidelberg, ISSN 1865-0929 Impact factor 1.88.

2. Analytical study of auto run Worm killer: A strategic approach, Aradhana Goutam, Raj Kamal, Maya Ingle, International journal of Engineering Sciences and management, 1(2) , pp. 120-125, 2011 ISSN No. 2231-3273

3. A decision centric approach using orchestrator model for system security Aradhana Goutam, Raj Kamal, Maya Ingle, CIT International journal of Engg. & Research, 1(1), pp. 62-68, 2011, ISSN 2230-9144.
4. An intelligent multimedia interface for fuzzy logic based inference in crops, Savita Kolhe, Raj Kamal, Harvinder S. Saini and G. K. Gupta, Expert System with Applications 38:12 (2011) pp. 14592-14601. Impact Factor = 3.162
5. Rule Promotion: A new fuzzy logic approach for drawing inferences in Rule Based expert System, Savita Kolhe, Raj Kamal, H.S. Saini ,and G.K.Gupta, www.isas.org.in/isas Journal of Indian Society of Agricultural Statistics, 65(3) (2011) 359-365.
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8. Deployment of a Low Interaction Honeypot in an Organizational Private network, Saurabh Chamotra, J.S.Bhatia , Dr. Raj Kamal, Dr. A. K. Ramani International Conference on Emerging Trends in Networks and Computer Communications (ETNCC-2011) ISBN: 978-1-4577-0239-6
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2. A Design Framework of Orchestrator for Computing Systems, (with IEEE Explore, Proc.IEEE, NWeSP (6th International Conference on Next Generation Web Services Practices), Raj Kamal and Shweta Agrawal, 2010.
3. A web-based intelligent disease diagnosis system using a new fuzzy logic approach for drawing the inferences in crop, Savita Kolhe, Raj Kamal, H.S. Saini ,and G.K.Gupta, International Journal of Computers and Electronics in Agriculture **76:1**, pp. 16-27, 2010. Impact factor 1.647

4. Multi-output LFSR Kernel Architecture and low power design for the Link Encryption in Bluetooth and WiMax Protocols in Software Defined Radios, C N Khairnar, Sanjiv Tokekar and Raj Kamal, IEEE Explore, Proceedings of the International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2010, 978-0-7695-4201-0/10, IEEE, DOI 10.1109/ARTCom.2010.81, pp 45-50, Oct 2010.

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1. Low-power LFSR Kernel Architecture in Mobile Transmitter and Receiver Protocols and Software Defined Radios, C N Khairnar, Sanjiv Tokekar and Raj Kamal, International Journal of Recent Trends in Engineering (ISSN: 1797-9617), Vol. 2, No. 1, pp20-26, Nov 2009.

2. A fuzzy-logic based on-line disease diagnosis system for soybean, Savita Kolhe, Raj Kamal, Harvinder S. Saini and G. K. Gupta, Soybean Research, Vol 7, 73-81, 2009.

3. A web-based intelligent disease diagnosis system using a new fuzzy logic approach for drawing the inferences in crops, Submitted to World Congress On Nature and Biological Inspired Computing (NaBIC2009), Savita Kolhe, Raj Kamal, H.S. Saini ,and G.K.Gupta, Communicated, Proceedings to be published in IEEE Computer Society and indexed by both EI (Compendex) and ISTP (Published in IEEE Xplore), December 9-11, pp. 812-817, 2009.

4. KMSCD : Knowledge Management System for Crop Diseases, Savita Kolhe, Raj Kamal, H.S. Saini and G.K.Gupta, Proceedings of World Congress on Nature and Biologically Inspired Computing (NaBIC), 812-817. IEEE Xplore, DOI: 10.1109/NABIC.2009.5393578, 2009.

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2008

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3. Modeling and Implementation of a Location Based Service Engine using XML filtering system”, Preeti Saxena, and Raj Kamal , Proceedings 1st national Conference on Architecture Future IT Systems (NCAFIS'08), Oct. 17-18, 2008.

Dr. D. S. Bhilare

2011

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2009

2. D.S. Bhilare, A.K. Ramani, S. Tanwani, “Information Security Assurance for Academic Institutions Using Role Based Security Metric: an Incremental Approach”, ACM International conference on advances in computing, communication and control 2009, ICA3 2009, 23-24 January 2009, p502-507, Mumbai.
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Dr. (Mrs.) Maya Ingle

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3. Shilpa Sharma, Maya Ingle, “Ontology Reliability Quantification Method”, Elixir Comp. Sci. & Engg. Volume 56, 2013pp 13505-13509 (impact factor 2.75)

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2. A Butalia, AK Ramani, M Ingle, P Kulkarni, “Classification of Sentiments through Rough Fuzzy Approach”, International Journal of Computer Science, Information Technology, & Security (IJCSITS), IRACST, vol2, no.2,ISSN: 2249-9555 (Online), 2250-1355 (Print), April 2012 (impact factor: 0.198) (<http://www.iraacst.org/ijcsits/papers/Vol2no22012/13vol2no2.pdf>)
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2008

39. U. Suman, and M. Ingle, "Reverse Engineering of Procedural Systems: An algorithmic approach", International Journal of Computer Science & Information Technology (IJCSIT), Serial Publications, New Delhi, ISSN 0974-8385, Vol.1, No.1, pp.13-21, Jan-June 2008.
40. Dharendra Pandey, U. Suman, A. K. Ramani, "Issues and Impact of Requirement Engineering Practices in Designing Quality Software Products", Proc. of National Conference on Architecturing Future IT Systems (NCAFIS'08), Indore (MP), India, pp.44-46, 17-18 October 2008.

Ms. Preeti Saxena

2012

1. Y. Tyagi, T.A. Puntambekar, Sanjay Tanwani, Preeti Saxena, "A Hybrid Approach to Edge Detection using Ant Colony Optimization and Fuzzy Logic", International Journal of Hybrid Information Technology. Vol. 5, No. 1, January, 2012.

2011

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3. Pritika Bahad, Preeti Saxena, "Efficient Visualization of GML through SVG on Mobile devices for Location Based Services", National Conference on Emerging Research Trends in Computer Science and Engineering, Indore, 18-19 November, 2011.
4. Preeti Saxena, Rajkamal, "XML – based Data Model for Location Based Services", International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies (ICNICT' 2011), Ghaziabad, India, September 2-3, 2011.
5. Manoj Kumar Meena, Vijay K Chaudhari, Shweta Meena, Preeti Saxena, "Maximum Hiding Capacity using LSB Steganography and Its Evaluation Surrounding pixel", Paper ID 232 Conference on IT- Contemporary & Future Technologies for Social Change (NSC - 2011) at ITM - Universe Campus, Gwalior.

2010

6. Praveen Gupta, Preeti Saxena “Energy Consumption in Wireless Ad hoc Network”, in 3rd International conference on Emerging trends and Engineering technology (ICETET) 2010, in BITS Pilani, Goa Campus, page(s):831, ISSN:2157-0477.
7. Praveen Gupta, Preeti Saxena, , Dr. A.K. Ramani, Dr. Rajkamal, “Optimize Use of Battery Power in a Wireless Ad hoc Networks”, 12th International Conference on Advanced Communication Technology(ICACT 2010), 7-10, Feb, 2010 in Phoenix Park Gangwon-Do, Republic of Korea.
8. S. Pandit, H. Acharya, A. Sanvedi, P. Nahar, S. K. Soni, Preeti Saxena, A. K. Ramani, “An Architecture Solution for E-Learning System – ESSA” , 2nd International Conference on Technology for Education 2010, IIT Bombay, Mumbai.

2009

9. Preeti Saxena, Amrita Trivedi, Nikita Shukla, “Optimum XML parsing for mobile based location search engine” Proceedings National Conference on Business Technologies, Truba College of Engineering & Technology, Indore, Mar. 13-14, 2009., pp. 168 – 171.
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11. Preeti Saxena, Aradhana Pandey, “Image compression for mobile based location search engine” 1st National Conference, Geomatrix'09 (National Conference on Geo-informatics), CSRE, IIT Bombay, Mumbai, Feb. 28 – Mar. 1, 2009.

2008

12. Preeti Saxena, Dr. Rajkamal “Modeling and Implementation of a Location Based Service Search Engine using XML filtering system”, Proceedings 1st National Conference (NCAFIS, 2008), School of Computer Science & IT, DAVV Indore, Oct. 17-18, 2008., pp. 162 – 172.
13. RajKamal, Preeti Saxena, “Mobile Devices with Embedded Local Intelligence and Spatial Databases for the Supply Chain Management Applications”, Proceedings 10th International Conference (NICOM 2008), Nirma Institute of Management, Nirma University of Science and Technology, Ahmedabad, Jan. 9-11, 2008., pp. 325 - 334.

Ms. Shraddha Masih

2011

1. Shraddha Masih, Dharmendra Pathak, Shruti Dubey and Neha Rahatekar “Data Mining of WHO Datawarehouse with PASW Modeler” ICECT, 2011 3rd International Conference and Eletronics Computer Tehnology.
2. Shraddha Masih, Shweta Bhandari, Laxmi Rathore, “Data Mining for optimal maintenance of ATM machines” National Conference on Emerging Research Trends in Computer Science and engineering(NCERTCSE -11) November 18-19, 2011 Swami Vivekanand College of Engineering (SVCE) Indore

2010

3. Rohit Anchalia Anjana Yadav and Shraddha Masih,, “Efficient Multisubject Detection using Artificial Neural Network” 30th to 31st October Computing, Communication & Sensor Networks – 2010(CCSN-2010) Purushottam Inst. of Engineering and Technology, Institution of Engineers India, Rourkela.
4. Shraddha masih, Rohit Anchaliya, Anjana Yadav,”Criminal Identification and tracking using improved Eigenface Recognition System” Second International Conference in Medi-Caps group of institutes,2010.

2008

5. Shraddha Masih, Shweta Agrawal, “Clustering by using MATLAB and WEKA”, Proceedings 1st National Conference (NCAFIS, 2008), School of Computer Science & IT, DAVV Indore, Oct. 17-18, 2008., pp. 132 – 136.

Dr. Hemant Mehta

2011

1. H. Mehta, P. Kanungo, M. Chandwani “Performance Enhancement of Scheduling Algorithms in Clusters and Grids using Improved Dynamic Load Balancing Techniques,” 20th international conference companion on World wide web 2011, March-April 2011, pp. 385-389. Digital Object Identifier 10.1145/1963192.1963348. **Awarded Nixi Fellowship**
2. H. Mehta, P. Kanungo, M. Chandwani “EcoGrid: A Dynamically Configurable Simulation Environment for Economy-Based Grid Scheduling Algorithms,” 4th ACM Annual Conference Compute-2011, Bangalore, March 2011. Digital Object Identifier: 10.1145/1980422.1980425.
3. H. Mehta, P. Kanungo, M. Chandwani "Dependency Free Distributed Database Caching for Web Applications and Web Services," International Journal of Computer Applications Proceedings on International Conference and workshop on Emerging Trends in Technology (ICWET) Number 9 Published by Foundation of Computer Science, 2011, pp. 27-32.
4. H. Mehta, P. Kanungo, M. Chandwani “Decentralized Content Aware Load Balancing Algorithm for Distributed Computing Environments,” ACM International Conference and Workshop on Emerging Trends and Technology (ICWET 2011), Mumbai, February 2011, pp. 510-515. Digital Object Identifier: 10.1145/1980022.1980102
5. H. Mehta, P. Kanungo, M. Chandwani “Distributed Database Caching for Web Applications and Web Services,” ACM International Conference and Workshop on Emerging Trends and Technology (ICWET 2011), Mumbai, February 2011, pp. 370-375. Digital Object Identifier: 10.1145/1980022.1980132

2010

6. H. Mehta, P. Kanungo, M. Chandwani “On Trust Management and Reliability of Distributed Scheduling Algorithms,” 2nd International Conference on Advanced Computing, ICoAC 2010, Anna University, Chennai December 2010, pp. 46-50. Digital Object Identifier: 10.1109/ICOAC.2010.5725360. ** AWARDED AS BEST PAPER **
7. H. Mehta, P. Kanungo, M. Chandwani “Maximum Utility Meta-Scheduling Algorithm for Users of Economy Based Grid Scheduling Environment,” 3rd International Conference on Contemporary Computing, August, 2010, pp. 23-33. Digital Object Identifier: 10.1007/978-3-642-14825-5_3
8. H. Mehta, P. Kanungo, M. Chandwani “Towards Development of a Distributed e-Learning EcoSystem,” 2nd International Conference on Technology for Education (TforE-2010),

9. H. Mehta, P. Kanungo, M. Chandwani "A Modified Delay Strategy for Dynamic Load Balancing in Cluster and Grid Environment," International Conference on Information Science and Applications, Seoul Korea, April 2010, pp. 1-8. Digital Object Identifier:10.1109/ICISA.2010.5480583
10. H. Mehta, P. Kanungo, M. Chandwani "A Content Aware Load Balancing Algorithm for Grid Computing Environment," 3rd CSI National Conference on Education & Research (ConfER2010), March 2010.
11. H. Mehta, P. Kanungo, M. Chandwani "Performance Evaluation of Grid Simulators Using Profilers," 2nd International Conference on Computer and Automation Engineering, Singapore, Vol. 2, February 2010, pp. 74-77. Digital Object Identifier:10.1109/ICCAE.2010.5451385

2008

12. H. Mehta, Kanungo P. and Chandwani M., "Performance Enhancement of Scheduling Algorithms in Web Server Clusters using Improved Dynamic Load Balancing Policies," 2nd National conference, INDIACOM-2008, New Delhi, Feb. 2008.

Mr. Deepak Abhyankar

2012

1. Abhyankar, D. and Ingle, M. (2012) Memory Hierarchy Based Performance Review of Sorting Algorithms, International Journal of Computer Science and Technology (IJCSST), Volume 3, Issue 1, pp. 206-209.

2011

2. D. Abhyankar, M. Ingle "Elements of Dynamic Programming in Sorting," IJERA, Vol. 1 Issue 3, 2011.
3. D. Abhyankar, M. Ingle "A Performance Study of Some Sophisticated Partitioning Algorithms," IJACSA Vol. 2, No. 5, 2011, Impact Factor: 1.324.
4. D. Abhyankar, M. Ingle "An Efficient Parallel Sorting Algorithm for Multicore Machines," IJCSIT Vol. 2 (5), 2011.
5. D. Abhyankar, M. Ingle "A Comparative Study of Some Ingenious Sorting Algorithms on Modern Architectures," IJCSET Vol. 1 (3), 2011.
6. D. Abhyankar, M. Ingle "A Methodological Review for the Analysis of Divide & Conquer Based Sorting/ Searching Algorithms," IJCSI Vol. 8 (5), 2011.
7. D. Abhyankar, M. Ingle "Engineering of a Quicksort Partitioning Algorithm," JGRCS, Vol. 2 Issue 2, 2011.
8. D. Abhyankar, M. Ingle "A better approach to QuickSort implementation," IJCC, Vol. 1 Issue 1, 2011
9. Abhyankar, D. and Ingle, M. (2011) A Novel Mergesort, International Journal of Computer Engineering Science (IJCES), Volume 1, Issue 3, pp. 17-22.

Mr. Nitin Uikey

2012

1. Nitin Uikey, U. Suman, "Towards Agile Project Management" Proceedings of the International Conference on Computer Applications 2012 (ICCA 2012), Pondicherry, ISBN: 978-81-920575-8-3, doi: 10.72906/ISBN_0768, ACM #: dber.imer.10.72906, Volume 5, pp. 181-189, Jan 27-31, 2012.

c. Teachers sponsored for M.Tech & Ph.D.

Following teachers pursued M.Tech. /ME

1. Ms. Archana Chaudhary - June, 2009
2. Mr. Hitesh Ninama - May, 2011
3. Ms. Shweta Agrawal - June, 2009
4. Mr. Chetan Awasthi - June, 2009
5. Ms. Sunita Gaur - June, 2009
6. Ms. Chaitali Uikey - 2009

d. Visit to premier institutions for advanced research and equipments

1. Visit to IIIT, Allahabad by Dr S Tanwani for studying Image processing Facilities, July 2009
2. 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
3. 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.
4. 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)
5. 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.
6. Regular visits of Dr Rajkamal 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.

e. Co-organised Shanti Swaroop Bhatnagar awardees conference July 17-19, 2009 where the chief guest was Padam Bhushan Dr Anil Kakodkar and Guest of honor was Padam Bhushan Dr T. Alex and Padamshri Dr M S Sodha, FNA were held to inspire young lecturers. Few important related topics and the speakers are:

S.No.	Name	Title
1	Dr. Subhasis Choudhry Indian Institute of Technology (IIT), Mumbai	Tracking Objects in a Scene
2	Prof Kehar Singh Indian Institute of Technology (IIT), New Delhi	Encrypted Holographic Memories
3	Prof A. K. Ghatak Indian Institute of Technology (IIT), New Delhi	Einstein and special theory of relativity July,19, 2009
4	Bharat Ratna Dr. A.P.J. Abdul Kalam	Motivational Lecture,11 th June 2013
5	Prof. M. S. Sodha, Padamshri, Ex-Vice Chancellor, In ore/Lucknow/Bhopal, Ex-Deputy Director, IIT, Delhi	Challenges of Higher Education, 17 th June, 2013
6	Prof. H.M Gupta, Ex-Professor, Delhi	Mobile Computing, March 2012

A.9 Student projects (18)

- 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.

A.10 Awards / recognitions received at the national and international level by 2007-2013

Dr. Rajkamal

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

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.
- 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

- 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).
- 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

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

Mr. Ajay Tiwari

- 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”.
- Faculty - Year-Wise List attached (19)

-Doctoral / post doctoral fellows - Year-Wise List attached (19)

-Students - Year-Wise List attached (19)

A.11 Record of each of Seminar/ Conference/Workshop organized and the source of funding (national / international) with details of outstanding participants, if any.

- Year-Wise List attached (19)

**A.12 Write up of Code of ethics for research followed by the departments -
Code of Ethics in Research**

Values:

- The research that promotes innovation, academic integrity and accountability.
- Respect and tolerance for the views of every individual.
- Attention to issues of national relevance as well as of global concern.
- Appreciation of intellectual excellence and creativity.
- Respect for privacy and confidentiality.
- Respect for justice and inclusiveness.
- The research beneficial to society.

Quality:

- School of Computer Science & IT is a premier educational and research institute.
- The School promotes the interdisciplinary research to solve fundamental and applied research problems.
- The School enhances the research by collaborating environment.
- The School provides facility of internet and laboratory equipments.
- The School provides the full access facility of various international journals such as: IEEE, ACM, Elsevier etc.
- All enthusiast faculty members, involved in research have internet with desktop for promoting research.
- Research Scholars are facilitated with desktops and printers in Separate lab.
- Research papers submitted by Scholars for publication, are reviewed by departmental research committee.
- Modern tools are used for checking plagiarism.
- The Research Scholars deliver presentations regularly for UG/PG students and faculty members.
- The serious action taken by School in case of report of plagiarism and two consecutive unsatisfied report of a research scholar.

Process:

- The Scholars are admitted through Doctoral Entrance Test (DET), conducted by School and subsequent interview.
- Ph. D. coursework is compulsory for selected DET candidates.
- The Scholars are required to submit research proposal after literature review, in the university
- The Scholars are interviewed by DRC for their research proposal.

Rules:

- The Scholars have to submit their research proposal/work to departmental committee first.
- The Scholars are not permitted for following scientific misconduct:
 - Gift Authorship
 - Redundant Publication
 - Plagiarism
 - Fabrication (showing results without experiment)
 - Falsification
- The Scholars are required to report their six monthly progress of research work to the supervisor.
- The citations and acknowledgement must be mentioned properly in the research documents by the Scholars.
- It is expected that the Scholar will acquire and maintain professional competence during their Ph. D. duration in School.
- The responsibilities assigned to the Scholars must be honored.
- The Scholars must have knowledge of existing laws pertaining to professional work.
- The School expects from the Scholars to achieve the highest quality, effectiveness and dignity in their research work.

A.12 Student profile course-wise: List Attached

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	Applications received	Selected Male	Selected Female	Pass percentage Male Female
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(refer to question no. 4)				
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				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.				

A.13 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	

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
M.Tech.	5	86	9	
Ph.D.	50	30	18	2

A.14 Record of how many students have cleared Civil Services and Defence 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

A.15 Record of Student progression

Student progression	Percentage against enrolled
UG to PG	95%
PG to M.Phil. (PG to M.Tech.)	5%
PG to Ph.D.	2%
Ph.D. to Post-Doctoral	1%
Employed <ul style="list-style-type: none">• Campus selection• Other than campus recruitment	40% 60% Year-Wise List of Campus selection attached(12)
Entrepreneurs	1%

File No. A. 15

A.16 Record of 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

A.17 Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the last four years

- Year-Wise List attached (1)

A.18 Present details of infrastructural facilities in the department with regard to:

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 facility: 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.

A.19 List of doctoral, post-doctoral students and Research Associates

- a) from the host university - Year-Wise List attached (1)
- b) from other universities - Year-Wise List attached (1)

A.19 Records of financial assistance and Number of post graduate students getting financial assistance from the university, UGC, State, AICTE.

1. Scholarship and fee reimbursement to ST/SC and OBC through State Government
2. 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.
3. One student received scholarship from minority cell and three students receive financial assistance from the community they belong to.

4. List of students given financial support by the university under earn-while-learn scheme and help in various library and office related activities:

1. Mr. Deepanshu Chore MBA(CM)
2. Shri Asif Multani MCA
3. Shri Md. Ali Khan MCA
4. Shri Palash Agrawal MCA
5. MS. Hema Bagdi BCA
6. Ms. Neha nagar MCA
7. Ms. Ankita Pathak MCA
8. Ms. Shilpa Sharma MCA

A.20 Methodology of need assessment exercise undertaken before the development of new programme(s): 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.

A.21 Records of feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

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?

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- Year-Wise proceedings are available.(File No. 2)

A.22 List the distinguished alumni of the department (maximum 10): List Attached

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 Bhatnagar	MCA	1993	
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
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A.23 Details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (File No. 19)

A.24 Record and List of 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.

A.25 Record of Monitoring by 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?

A.26 Details and Highlight of the participation of students and faculty in extension

activities in the department.

- 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.

A.27 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, IIT, 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 Sarada, 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, Indraprastha 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.

A.28 Information about programme/ department accreditation/grading by other agencies? If yes, give details. No

A.29 Write up of 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.

A.30 Write up of 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 pursue quality research and seek for UGC grants.
- Generation e-resources for various computer related subjects.

A.31 Record of any five 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
6. Curriculum revision as per industry requirements 6. Focus on soft skill development
7. Extra curricular activities in cultural and sports for overall development
8. High speed internet facility on every desktop
9. Every faculty given computer and internet for research.

Weaknesses:

1. Inadequate Permanent Faculty
2. Limited grants from State Government
3. Inclination of Brilliant 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:

The department intends to start a five year integrated MCA programme to increase the intake and the number of students on new pattern CBCS suggested by ugc.

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

A.32 Write up of efforts for Quality Sustenance and Assurance in the department

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 informally 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. Engineering 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
 - (ii)

CRITERION I: Curriculum Design and Development

1.1.1 Academic Year of Revision, Curriculum of Each Course, Objective and Course plans of each paper taught in the course

Minor revisions to course contents are done annually whereas we make major changes in approx. 3 years.

Attached: Detailed Course Plan, Student Kits.

File No. . 1.1.1

Whether uploaded on website

Yes No

Link: <http://www.scs.dauniv.ac.in/Student%20Kit.php>

1.1.1.A Eligibility for admission to each course

S.No.	Name of the course	Eligibility
1	BCA , BCA(Hons) & 6 Years Integrated MCA	Higher Secondary (10+2) Examination of Indian Educational System, with minimum 50 % marks in aggregate, with Physics and Mathematics from any state/central education board or equivalent.
2	MSC (Computer Science)	B.C.A or B.Sc. or B.Sc.(Hons.) with 50 % marks in aggregate with maths as a compulsory subject and any one of the following subjects: Computer Science, Electronics, Physics, I.T., Computer Maintenance, Elex. Eqpt. Maint.)
3	M.Sc. (Information Technology)	
4	Master of Computer Applications (MCA)	Eligibility as decided by VYAPAM (MADHYA PRADESH VYAVSAYIK PAREEKSHA MANDAL)
5	M.Tech. Computer Science	Only GATE qualified in CSE/ECE with 4 years of study in university level/ B.E./ B.Tech (CSE/ IT/ Comp. related subjects)/ M.C.A/ M.Sc.(CS/IT) with 55 % marks in aggregate. Sponsored candidates with minimum industrial/teaching/ Research experience of five years.
6	M.Tech. Network Management & information Security	
7	M.Tech. Software Engineering & information Architecture	
8	M.B.A.(Computer Management)	Any graduate with 50% marks

1.1.1.B Whether reflects Vision and mission reflection

Yes No

1.1.1C Write on reflection of vision and mission

Vision

“To achieve excellent standards of quality education by keeping pace with rapidly changing technologies & create computer professionals of global standards with capabilities of accepting new challenges.”

Mission

- *To produce world-class professionals who have excellent analytical skills, communication skills, team building spirit and ability to work in cross cultural environment.*
- *To produce international quality IT professionals, who can independently design, develop and implement computer applications.*
- *Professionals who dedicate themselves to mankind, who are environment conscious, follow social norms and ethics.*

The courses offered in our department rightly reflect our mission. We produce international quality IT professionals and our alumina are a part of top companies of world. We pay more attention on analytical skills, problem solving and communication skills. Theory is complemented by practicals and projects. Many of the projects are done for local entrepreneurs in a team which enable the team building spirits in students and prepare them for working in cross cultural environments. Ten students involved in honorary software development for Non Government organizations and Sinhu Sahkari Cooperative bank and three have developed software for blood donor social organizations. The department has played a key role and initiative to lay optical fiber in university for campus wide internet on every desktop and setting latest technology based IT infrastructure in 1999-2000 of global standards. Also, the department faculty members have produced text books of global standards for the country and international universities clearly reflecting our vision.

1.1.2 Details of process followed in last revision of Curriculum

B. Faculty involved in curriculum design (List of members): We have an academic planning committee comprising following members:

Name	Email	Phone
Dr. Sanjay Tanwani (Chairperson)	sanjay_tanwani@hotmail.com	98266 23640
Ms. Preeti Saxena, Associative Professor	psaxena.scs@dauniv.ac.in	98270 71501

Ms. Shraddha Masih, Associative Professor	sdandel.scs@dauniv.ac.in	98931 07558
Ms. Shweta Agrawal, Assistant Professor (Contract)	ashweta.scs@dauniv.ac.in	93003 92334

Other than committee members, the concerned teachers are also given flexibility to update the syllabus. This syllabus is reviewed by subject experts (Review committee) and then finalized. Core subjects and list of electives attached. Map curriculum with NET and GATE syllabus.

Detailed Course curriculum specified in

Attached File No. 1.1.2 A

List of elective subjects:

IC-4903	Accounting and Financial Systems
CS-6406	Decision Support Systems
CS-4405	Design of Business Information Systems
CS-5302	Object Oriented Software Engineering
CS-5303	Information Technology Project Management
CS-6504	Advanced Operating Systems
CS-5402	Client Server Computing
CS-6403	Distributed Databases
CS-6206	Parallel Algorithms
CS-5702	Digital Signal Processing.
CS-6703	Computer Vision and Digital Image Processing
CS-6704	Fuzzy Logic and Neural Networks
CS- 4501	System Programming
CS-5305	Object Oriented Analysis and Design
CS-5003	Advanced Computer Architecture
CS-6005	Neural Networks
CS-5604	Information Security
CS-6004	Parallel Computing
CS-5107	Simulation and Modeling
CS-7705	Natural Language and Speech Processing
CS-6602	Distributed Systems
CS-6605	Advanced Computer Networks
CS-5006	Embedded Systems
CS-6009	VLSI Design
CS-4104	Computer Oriented Numerical Methods
CS-4105	Computer Based Statistical Methods
CS-5106	Advance Optimization Techniques
CS-5104	Performance Evaluation of Computer Systems
CS-5007	Real Time Systems

CS-6607	Mobile & Wireless Systems
CS-5408	Enterprise Resource Planning
CS-6407	Geographic Information Systems
CS-6409	Digital Libraries & E -Governance
CS-5405	Bio-informatics
CS-6008	Fault Tolerance Systems
CS-6405	Computer Supported Corporative Works
CS-6706	Knowledge Based Systems
CS-4102	Linear Systems
CS-4106	Control Systems
CS-4402	Advances in Information Systems
CS-4601	Data & Computer Communication
CS-6305	Collaborative Computing
CS-6401	Knowledge Management
CS-4106	Mathematical of Foundation of Computer Science
CS-5504	Principles of Programming Languages
CS-5608	Internet and Web technology
CS-6707	Robotics
CS-6305	Object Oriented Modeling & Analysis
CS-6306	Object Oriented Design

C. Records of Departmental Committees/Board approvals of the designed curriculum?

D. Records of External Experts Opinion of the designed curriculum -
Attached File No. 1.1.2 D

E. Records of External Experts Feedback of the designed curriculum -
Attached File No. 1.1.2 E

F. Records of Student Feedback opinion on the existing curriculum Attached Attached
File No. 1.1.2 F

G. Records of Syllabi of National tests, Eligibility Tests and Examinations for example, GATE, NET, Service Commissions, National Councils, for the each curriculum, if any,

GATE 2013
Graduate Aptitude Test in Engineering 2013
Syllabus for Computer Science and Information Technology (CS)

Engineering Mathematics

Mathematical Logic: Propositional Logic; First Order Logic.

Probability: Conditional Probability; Mean, Median, Mode and Standard Deviation; Random Variables; Distributions; uniform, normal, exponential, Poisson, Binomial.

Set Theory & Algebra: Sets; Relations; Functions; Groups; Partial Orders; Lattice; Boolean Algebra.

Combinatorics: Permutations; Combinations; Counting; Summation; generating functions; recurrence relations; asymptotics.

Graph Theory: Connectivity; spanning trees; Cut vertices & edges; covering; matching; independent sets; Colouring; Planarity; Isomorphism.

Linear Algebra: Algebra of matrices, determinants, systems of linear equations, Eigen values and Eigen vectors.

Numerical Methods: LU decomposition for systems of linear equations; numerical solutions of non-linear algebraic equations by Secant, Bisection and Newton-Raphson Methods; Numerical integration by trapezoidal and Simpson's rules.

Calculus: Limit, Continuity & differentiability, Mean value Theorems, Theorems of integral calculus, evaluation of definite & improper integrals, Partial derivatives, Total derivatives, maxima & minima.

Computer Science and Information Technology

Digital Logic: Logic functions, Minimization, Design and synthesis of combinational and sequential circuits; Number representation and computer arithmetic (fixed and floating point).

Computer Organization and Architecture: Machine instructions and addressing modes, ALU and data-path, CPU control design, Memory interface, I/O interface (Interrupt and DMA mode), Instruction pipelining, Cache and main memory, Secondary storage.

Programming and Data Structures: Programming in C; Functions, Recursion, Parameter passing, Scope, Binding; Abstract data types, Arrays, Stacks, Queues, Linked Lists, Trees, Binary search trees, Binary heaps.

Algorithms: Analysis, Asymptotic notation, Notions of space and time complexity, Worst and average case analysis; Design: Greedy approach, Dynamic programming, Divide-and-conquer; Tree and graph traversals, Connected components, Spanning trees, Shortest paths; Hashing, Sorting, Searching. Asymptotic analysis (best, worst, average cases) of time and space, upper and lower bounds, Basic concepts of complexity classes – P, NP, NP-hard, NP-complete.

Theory of Computation: Regular languages and finite automata, Context free languages and Push-down automata, Recursively enumerable sets and Turing machines, Undecidability.

Compiler Design: Lexical analysis, Parsing, Syntax directed translation, Runtime environments, Intermediate and target code generation, Basics of code optimization.

Operating System: Processes, Threads, Inter-process communication, Concurrency, Synchronization, Deadlock, CPU scheduling, Memory management and virtual memory, File systems, I/O systems, Protection and security.

Databases: ER-model, Relational model (relational algebra, tuple calculus), Database design (integrity constraints, normal forms), Query languages (SQL), File structures (sequential files, indexing, B and B+ trees), Transactions and concurrency control.

Information Systems and Software Engineering: information gathering, requirement and feasibility analysis, data flow diagrams, process specifications, input/output design, process life cycle, planning and managing the project, design, coding, testing, implementation, maintenance.

Computer Networks: ISO/OSI stack, LAN technologies (Ethernet, Token ring), Flow and error control techniques, Routing algorithms, Congestion control, TCP/UDP and sockets, IP(v4), Application layer protocols (icmp, dns, smtp, pop, ftp, http); Basic concepts of hubs, switches, gateways, and routers. Network security – basic concepts of public key and private key cryptography, digital signature, firewalls.

Web technologies: HTML, XML, basic concepts of client-server computing.

Syllabus for UGC NET Computer Science

Study materials for UGC NET Computer Science

Paper I

1. Teaching and Research Aptitude (General Paper).

Paper II

1. Discrete Structures.
2. Computer Arithmetic.
3. Programming in C and C++.
4. Relational Database Design and SQL.
5. Data and File Structures.
6. Computer Networks.
7. System Software and Compilers.
8. Operating Systems with Case Study of Unix.
9. Software Engineering.
10. Current Trends and Technologies.

Paper III - Core Group

1. Digital Systems and Microprocessors.
2. Data Base Management Systems.
3. Computer Graphics.
4. Programming Concepts.
5. Data Communication and Networks.
6. Data Structures and Algorithms.
7. OOP and Web Technologies.
8. Advanced Software Engineering.
9. Operating Systems.
10. Artificial Intelligence.

Paper III - Elective/Optional

1. Finite Automata and Formal Languages.
2. Information Theory and Coding.
3. Operation Research.
4. Neural Networks and Fuzzy Systems.
5. Unix and Windows.

1.1.3 Detailed write up out each course in reference to

* Employability

All the courses run by the department are computer related courses and are in high demand in the industry and educational institutions. The syllabii are updated regularly as per changing industry requirements. Our MCA programme is top rated in Madhya Pradesh and the toppers of the entrance test take admission a. Lately, due to increased number of engineering colleges in the state, our intake as well as employability is slightly affected. Recently, we have revised the curriculum of MBA (CM) programme to introduce specialization in ERP. With this initiative, we expect a boost in the employability of these students. In general, the supply of qualified and trained manpower in Information Technology field is less than demand, so our students are readily employable.

* Innovation

All the M.Tech. programmes run by the department are innovative. The syllabus is at par with international universities. The students in their final year take up research based projects within the department. The outcome of the work often results in research paper.

* Research

The department has full time Ph.D. programme and have 59 research scholars registered as on May 2013. The outcome of their research is published in the form of research papers journals and conferences.

1.1.4 Records of UGC/AICTE/National Council, Regulating bodies Guidelines for the development and restructuring the curriculum, if any,

Department Faculty members, if any, involved in leading any curricular reform which has created a national impact?

- (i) Department faculty involved in syllabus design of M.P. Public Service Commission for its various exams.
- (ii) Department faculty involved in syllabus design of affiliated colleges running computer courses. These syllabi are also adopted by all other state universities.
- (iii) Our M.Tech. programmes are innovative and very few institutes in the country offer these programmes. A couple of other universities have included our subjects in their curriculum.
- (iv) Dr. S Tanwani, Member Board of Studies, APS Univ REWA
- (v) Dr. Rajkamal, Member, Board of Studies, I²IT, Pune and Sambalpur university, Orissa and Member, RDC, Computer Engg, Barkatullah University, Bhopal. Served in curriculum committee of B.E. Courses of Tamilnadu Colleges (2003). Registered as a Ph.D. Guide in Anna University (2003-06). Served as Expert member, Kalasalingam University, Near Srivilliputtur, Tamilnadu.

1.1.5 A. Record of Interactions, Opinions and Feedbacks for the designed curriculum with External Research Bodies. Attached File No. 1.1.5 A

B. Records of Interactions, Opinions and Feedbacks for the designed curriculum with Industrial Experts, particularly in case of Professional Courses Attached File No. 1.1.5 B

C. Records of Interactions, Opinions and Feedbacks for the designed curriculum with Stake Holders, such as eminent personalities, Visitors to the departments, parents: Attached File No. 1.1.5 C

D. Records of Alumni opinion on the existing curriculum (may be taken in an Alumni Register): Attached File No. 1.1.5 D

1.1.6 List of Department Courses which are also introduced in University affiliated colleges also. List of colleges who introduced those courses

M.Sc.(CS) and M.Sc.(IT) have been adapted by two autonomous colleges

- i. Holkar Science College
- ii. Christian Eminent College

Changes in the Syllabi of M.Sc. (CS) and (IT) are first done in university. After

adopting it for 2 to 3 years it is being adopted by other affiliated colleges also.

1.1.7 Details of additional skill-oriented programmes designed for the colleges, Employees, Faculty relevant to regional needs

- i. Training program for DAVV employees in IT center.
- ii. Every year, Computer Courses for Academic Staff College are coordinated, taught and arranged by the faculty of SCSIT. One to two refresher or orientation programmes on computer skills are held every year.
- iii. One month Course of Databases and Data Mining was conducted in July-August, 2010.
- iv. Computer Skill oriented program for Ph.D. Coursework students arranged. (700 students approx. of university)
- v. Microsoft Training Programme on ICT for teachers other than IT background from 10th June , 2013 to 19th June 2013.

1.2 Academic Flexibility

1.2.1 List of Courses taught in Department on campus

M.Tech. programme is offered with specialization in three branches:

1. Computer Science since 1992
2. Network Management & Information Security
3. Software Engineering & Information Architecture

M.Sc. programme is offered with specialization in two branches:

1. Computer Science
2. Information Technology

The course curriculum offers a number of optional subjects to choose so as to cater to specific job requirements and skills development.

- * Overseas programmes offered on campus - No
- * Programmes available for colleges to choose from -No

The department offers courses on embedded systems, mobile database, compiler design, operating system, and network security, which may be opted by students of other UTD's like School of Electronics, IIPS & IET.

1.2.2 Records on the following provisions with reference to academic flexibility

- a. List of Core/ Elective options – Electives offered at M.Tech., MSc & MCA courses. Scheme with core and optional subjects attached in File No. 1.2.2

Core Subjects in PG:

M.Sc. (CS)	M.Sc. (IT)	MCA	MBA(CM)
Semester I	Semester I	Semester I	Semester I
Computer and Communication Fundamentals	Computer and Communication Fundamentals	Computer and Communication Fundamentals	Computer and Communication Fundamentals
Programming and Problem Solving through C	Programming and Problem Solving through C	Programming and Problem Solving through C	Programming and Problem Solving through C
Operating Systems	Operating Systems	Operating Systems	Operating Systems
Discrete Structures	Discrete Structures	Discrete Structures	Mathematical Foundation of Computer Science
Communication Skills and Report Writing	Communication Skills and Report Writing	Communication Skills and Report Writing	Communication Skills and Report Writing
Semester II	Semester II	Semester II	Semester II
Computer Architecture	Computer Architecture	Computer Architecture	Computer and communication fundamentals
Data Structures Using C++	Data Structures Using C++	Data Structures Using C++	Data Structures Using C++
Database Management System	Database Management System	Database Management System	Database Management System
Computer Networks	Computer Networks	Computer Based Statistical Methods	Computer Based Statistical Methods
Software Engineering	Software Engineering	Software Engineering	Software Engineering
Organizational and Management Concepts	Organizational and Management Concepts	Organizational and Management Concepts	Organizational and Management Concepts

b. List of Enrichment courses –

Courses on Motivation, Communication Skills, English & Personality Development, Special courses on Android, VB.net, Database & Data mining are organized for students on regular basis.

c. List of Courses offered in modular form -No

d. List of courses/papers with Credit accumulation and transfer facility

1. One student Ms. Aditi Jain of BCA continued her Bachelor of Science (BS) in Arizona University. They considered her two semester accumulated credits for BS.
2. One student Danniel Norren completed 8 credits from the department for the completion of MS program from Tilburg University, Netherlands.(Jan-May, 2009)

e. Details of Lateral and vertical mobility within and across programmes, courses and disciplines

1.2.3 Records of International students- 3

- i. Ms. Vaatarna working in Naresuan University, Thailand completed her Ph.D. from School of Computer Science and IT under guidance of Dr. A. K. Ramani.(24/12/2008)
- ii. Mr. Daniel Norren completed 8 credits for completion of MS degree from Tilburg University, Netherlands. .(Jan-May, 2009)
- iii. Mr. Gilbert Ibitola,"Computer Assisted Systems for Agriculture Applications" from University of Nairobi, Kenya completed his Ph.D in 1996.
- iv. Mr. Shakeel Ahmed, from King Faisal University Saudi Arabia, "Quality of services for mobile adhoc networks" was registered under Dr A k Ramani in August 2008 and has completed his Ph.D. in July 2013.

1.2.4 Records of Courses developed targeting international students, if any -No

1.2.5 Record of dual degree and twinning programmes-

Only one integrated program is run in SCSIT. BCA + BCA(Hons) + MCA(Integrated)

1.2.6 A. List of students, Admission Process, Fee structure of each programme

List of Students: in Admission File No. 1.2.6

Admission Process is as follows :

S.No.	Course	Admission Process
-------	--------	-------------------

1	MCA	Admission through state level entrance test conducted by MP Prof Exam Board
2	M.Tech.	Admission on the basis of GATE Score. Sponsored candidates having more than three years experience preferred.
3	MSc(CS/IT), MBA(CM), BCA	Admission on basis of entrance test(50% weightage) + 50% weight age for qualifying degree percentage

Fees Structure: 2009 Onwards

MCA

Break up Semester	1 st MCA,	IInd MCA	IIIrd MCA	IVth MCA.	Vth MCA	VIth MCA
01. Academic Fees	20000	20000	20000	20000	20000	20000
02. Development Fees	2500	2500	2500	2500	2500	2500
03. Other Miscellaneous Fees	2000	2000	2000	2000	2000	2000
04. Internet Fees	500	500	500	500	500	500
05. Exam Fees	1000	1000	1000	1000	1000	1000
06. Caution Money Fees	1000	0	0	0	0	0
07. University Fees	1540	900	1540	900	1540	900
Total Rs.	28540	26900	27540	26900	27540	26900

Note :

1. Hostel Fees and Central Library Fees will be extra.
2. For NRI/FN/PIO Candidates, A fee of US\$3000per Annum shall be payable on yearly basis. They will have to pay refundable deposit of US\$1500 once at the time of admission.
3. In addition to it Caution Money (Refundable) of Rs. 1000/- will be charged in Ist Semester.
4. Rs. 300/- per Semester is taken extra from all students for the students Alumni Association. Alumni Association funds will be utilized solely by the Association and students. For students own academic, cultural, placement activities.
5. MCA fees is subject to revision as per DTE guidelines.

M.Sc.(CS),MBA(CM), M.Sc.(IT), M.Tech (CS)

Fees Break Up	1 st M.Sc.(CS), MBA(CM), M.Sc.(IT), M.Tech	IInd M.Sc.(CS), MBA(CM), M.Sc.(IT), M.Tech(CS)	IIIrd M.Sc.(CS), MBA (CM) M.Sc.(IT), M.Tech (CS)	IVth M.Sc.(CS), MBA(CM) M.Sc.(IT), M.Tech (CS)

	(CS) Rs.	Rs.	Rs.	Rs.
01. Academic Fees	13000	13000	13000	13000
02. Development Fees	1000	1000	1000	1000
03. Other Miscellaneous Fees	1000	1000	1000	1000
04. Internet Fees	500	500	500	500
05. Exam Fees	1000	1000	1000	1000
06. Caution Money Fees	1000	0	0	0
07. University Fees	1540	900	1540	900
Total Rs.	19040	17400	18040	17400

Note :

1. Hostel Fees and Central Library Fees will be extra.
2. For NRI/FN/PIO Candidates, A fee of US\$3000 per Annum shall be payable on yearly basis. They will have to pay refundable deposit of US\$1500 once at the time of admission.
3. In addition to it Caution Money (Refundable) of Rs. 1000/- will be charged in Ist Semester.
4. Rs. 300/- per Semester is taken extra from all students for the students Alumni Association. Alumni Association funds will be utilized solely by the Association and students. For students own academic, cultural, placement activities.

BCA

Fees Break Up	1 st BCA Rs.	IInd BCA Rs.	IIIrd BCA Rs.	IVth BCA Rs.	Vth BCA Rs.	VIth BCA Rs.	VIIth BCA Rs.	VIIIth BCA Rs.
01. Academic Fees	10400	10400	10400	10400	10400	10400	13000	13000
02. Development Fees	1000	1000	1000	1000	1000	1000	1000	1000
03. Other Miscellaneous Fees	1000	1000	1000	1000	1000	1000	1000	1000
04. Internet Fees	500	500	500	500	500	500	500	500
05. Exam Fees	1000	1000	1000	1000	1000	1000	1000	1000
06. Caution Money Fees	1000	0	0	0	0	0	0	0
07. University Fees	1540	900	1540	900	1540	900	1540	900
Total Rs.	16440	14800	15440	14800	15440	14800	18040	17400

Note :

1. Hostel Fees and Central Library Fees will be extra.
2. For NRI/FN/PIO Candidates, A fee of US\$3000 per Annum shall be payable on yearly basis. They will have to pay refundable deposit of US\$1500 once at the time of admission.
3. In addition to it Caution Money (Refundable) of Rs. 1000/- will be charged in Ist Semester.
4. Rs. 300/- per Semester is taken extra from all students for the students Alumni Association. Alumni Association funds will be utilized solely by the Association and students. For students own academic, cultural, placement activities.

Fees Structure: 2012 Onwards

FEES CERTIFICATE

M.Tech (CS/NM/SE)/ M.Sc.(CS/IT)/MBA(CM) Regular Students 2012-2014

Amount of total Semester fees for the PG Programme are as below:

Fees Breakup	1st Sem M.Tech(CS/NM/SE) M.Sc.(CS/IT) MBA(CM) Rs.		2nd Sem M.Tech(CS/NM/SE) M.Sc.(CS/IT) MBA(CM) Rs.		3rd Sem M.Tech(CS/NM/SE) M.Sc.(CS/IT) MBA(CM) Rs.		4th Sem M.Tech(CS/NM/SE) M.Sc.(CS/IT) MBA(CM) Rs.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Academic Fees	13650	13650	13650	13650	13650	13650	13650	13650
Tution fees								
Development Fees	2100	2100	2100	2100	2100	2100	2100	2100
Students Service fees	2260	2071	1472	1283	2260	2071	1472	1283
Exam Fees	1050	1050	1050	1050	1050	1050	1050	1050
Caution Money	1000	1000						
Total	20060	19871	18272	18083	19060	18871	18272	18083

*The Academic Fee for BE/MCA/MBA/B.Pharma/M.Pharma/B.Ed Programmes are at par with Fixation Committees of the Govt. of M.P.

Note:

1. Academic Fee for SC/ST students may be reimbursed by the latest M.P. State Govt. Rules.
2. UTD may decide to charge the fee on yearly or semester basis.
3. If the student reappears in an examination, a fee of 220/-per subject (Maximum Rs.1100/- per semester) shall be payable.

4. For NRI/FN/PIO candidates, a fee of US\$3200 Per Annum shall be payable on yearly basis. They will have to pay a refundable deposit of US\$1600 once at the time of admission.
5. Hostel fees and central library fees will be extra.
6. Caution Money (Refundable) of Rs. 1000/- will be charged in 1st sem only.
7. Rs. 300/- per semester is taken extra from all student for the Students Alumni Association. Alumni Association funds will be utilized solely by the association and students.

FEES CERTIFICATE

MCA

2012-2015

Amount of total Semester fees for the PG Programme are as below:

Fees Breakup	1st Sem MCA Rs.		2nd Sem MCA Rs.		3rd Sem MCA Rs.		4th Sem MCA Rs.		5th Sem MCA Rs.		6th Sem MCA Rs.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Academic Fees	21000	21000	21000	21000	21000	21000	21000	21000	21000	21000	21000	21000
Tuition fee												
Development Fee	4725	4725	4725	4725	4725	4725	4725	4725	4725	4725	4725	4725
Students Service fees	2260	2071	1472	1283	2260	2071	1472	1283	2260	2071	1472	1283
Exam Fees	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Caution Money	1000	1000										
T o t a l	30035	29846	28247	28058	29035	28846	28247	28058	29035	28846	28247	28058

Note:

1. Academic Fee for SC/ST students may be reimbursed by the latest M.P. State Govt. Rules.
2. UTD may decide to charge the fee on yearly or semester basis.
3. If the student reappears in an examination, a fee of 220/-per subject (Maximum Rs.1100/- per semester) shall be payable.
4. For NRI/FN/PIO candidates, a fee of US\$3200 Per Annum shall be payable on yearly basis. They will have to pay a refundable deposit of US\$1600 once at the time of admission.
5. Hostel fees and central library fees will be extra.
6. Caution Money (Refundable) of Rs. 1000/- will be charged in 1st sem only.
7. Rs. 300/- per semester is taken extra from all student for the Students Alumni Association. Alumni Association funds will be utilized solely by the association and students.

FEES CERTIFICATE
BCA
2012-2015

Amount of total Semester fees for the UG Programme are as below:

Fees Breakup	1st Sem BCA Rs.		2nd Sem BCA Rs.		3rd Sem BCA Rs.		4th Sem BCA Rs.		5th Sem BCA Rs.		6th Sem BCA Rs.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Academic Fees Tuition f	10920	10920	10920	10920	10920	10920	10920	10920	10920	10920	10920	10920
Development F	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
Students Service fees	2260	2071	1472	1283	2260	2071	1472	1283	2260	2071	1472	1283
Exam Fees	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Caution Money	1000	1000										
Total	17330	17141	15542	15353	16330	16141	15542	15353	16330	16141	15542	15353

Note:

1. Academic Fee for SC/ST students may be reimbursed by the latest M.P. State Govt. Rules.
2. UTD may decide to charge the fee on yearly or semester basis.
3. If the student reappears in an examination, a fee of 220/-per subject (Maximum Rs.1100/- per semester) shall be payable.
4. For NRI/FN/PIO candidates, a fee of US\$3200 Per Annum shall be payable on yearly basis. They will have to pay a refundable deposit of US\$1600 once at the time of admission.
5. Hostel fees and central library fees will be extra.
6. Caution Money (Refundable) of Rs. 1000/- will be charged in 1st sem only.
7. Rs. 300/- per semester is taken extra from all student for the Students Alumni Association. Alumni Association funds will be utilized solely by the association and students.

B. Record of Teacher qualification and salary parity and differences (if any) at par with the aided programmes

- Twelve permanent employees are paid UGC pay scales and state government allowances.
- Sixth pay commission pay scales implemented since April 2010.
- Eleven faculty members, who are working on temporary full time contract faculty are paid only UGC pay scale. At present 21,600 (15000 + 6600 G.P) is paid to contractual lecturers.

- 1.2.7 Operational details of distance Education Course in the department (if applicable)- Department does not offer Distance Education course.
- 1.2.8 Details of Choice Based Credit System (CBCS) -
Planned for 2013-14
- 1.2.9 Records of Departmental Academic Calendars of each semester:
File No. 1.2.9
Calendar is also hosted on website every semester.
- 1.2.10 Records of Inter-disciplinary programmes, Name of interdisciplinary program and details of students undertaken those programmes.

M.Tech. Embedded Systems, Mobile Computing and Spatial Information Technology at School of Electronics are interdisciplinary and are supported by Computer Science Faculty Members.

Subjects like communication skills, English, Accounts, Entrepreneurship, Environment Awareness, Physics etc. are part of curriculum. Classes of English Language Lab, personality development, interviewing skills etc. are conducted every semester.

1.3 Curriculum Enrichment -

- 1.3.1 A. Record of academic years in which each of the courses was revised
- Syllabus revision every one to two years

B. Records of review, up-gradation,

C. Records of social relevancy :

Software for Deaf and Dumb under guidance of Dr. Maya Ingle
Competition Software for NGO's is planned in 2014

D. Records of job orientation

E. Records of knowledge intensive nature of each course

F. Records of meeting the emerging need of students : Records in Feedback forms

G. Records of meeting the emerging need of stakeholders

1.3.2 Details of the last four years during which how many new programmes at UG and PG levels were introduced

- * Inter-disciplinary

- * programmes in emerging areas

M.Tech.(Network Management and Information Security)-2010

M.Tech. (Software Engineering and Information Architecture)-2011

1.3.3 A. Details of strategies adopted for the revision of the existing programmes
We have based our syllabus revisions on account of following activities held in the department

(i) Workshop on Career opportunities in CS & IT on October 22, 2010.

(ii) Suggestions of faculty members in the department committee.

(iii) Panel discussion on syllabus revisions with industry experts and academia on Sep 15, 2011.

(iv) Suggestions from eminent experts from National and International institutes.

(v) Institution of Electrical & Electronics Engineers (IEEE)/Association of Computing Machinery (ACM) are two topmost international computing societies. We have based our curricula on International curricula published by these bodies in 2005.

Details in File No. 1.3.3

B. Percentage of courses underwent a syllabus revision in last four years (90%)

1.3.4 A. Details of Value-added courses offered

I. Database & Data Mining course for BE students of affiliated colleges & RGPV from July 10-Aug 13, 2010.

II. Microsoft training programme for Non Information Technology (non IT) teachers from June 10-24, 2013.

B. Details of these courses access to students

1. 60 participants admitted against the total applications of 150 approx.

2. Meritorious students were given scholarships from Impetus.

1.3.5 Details of higher order skill development programmes in consonance with the national requirements (for example, innovative M. Tech. /M.E. courses,

CCNA, CCSP,)

1. M.Tech.(Network Management and Information Security)-2010
2. M.Tech. (Software Engineering and Information Architecture)-2011
3. M.tech Computer Science running since 1992

Both are AICTE approved and the students are paid stipend of Rs. 8000/- per month for these programmes.

1.4 Feedback System

1.4.1 A. Copy of Feedback form to obtain feedback from students/student class representatives regarding the curriculum

B. Details of action and use of on feedback from students

The feedback from selected students for every subject is taken and analyzed. The analysis results are communicated to the Head and the faculty member. A workshop is held every semester and all the faculty members present their strength and weakness in front of the committee. The faculty members use the results of the feedback for the improvement in the next semester. The last workshop in this regard was held in Jan 2013.

1.4.2 **A. Method used for eliciting feedback on the curriculum from national and international faculty:**

- a. Dr H M Gupta, UGC Nominee, SAP programme regularly visits the department and gives his suggestions on feedback.
- b. Dr P S Grover, Retd Professor from University of Delhi has visited the department for expert lectures. Discussions with him lead to inclusion of Aspect Mining chapters in Data Mining courses and Aspect Oriented programming in programming courses.
- c. Dr Vijay Kumar, University of Missouri has delivered lectures on Mobile Computing. Subsequently, he guided on inclusion of mobile computing subject.
- d. Dr Anil Tripathi, Prof. BHU is invited to visit the department for curriculum revisions.
- e. Dr Mrs. S. Kher, University of _____ visited the department and delivered lectures.

B. Conducting webinars – Webinar on Teaching Databases and Data Mining

on Feb 13, 2012 by Dr D B Phatak during the workshop on teaching methodologies in Database & Data Mining. His suggestions were incorporated in syllabus revision & teaching techniques of Database Management Systems.

C. Curriculum Development Workshops – Career Opportunities in CS & IT 2010, Panel discussion on curriculum revision. September 2011

D. Curriculum development online discussions Discussion in BOS after studying curricula of premier national and foreign universities.

E. Impact of Workshop and discussions. The panelists were from corporate having international experience, academician from Delhi IIT helped us to add new dimension to the curriculum.

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

The faculty members from the lead colleges are also the members of Board of Studies chaired by a senior professor of the department. They put up their points regarding problems and possible elimination of the problems through syllabus revisions or the introduction of new courses as per industry requirements in the board of studies meeting.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the Department in ensuring the effective development of the curricula?

Course syllabi are based on syllabus revision from the latest ACM/IEEE international curricula. Also, the feedback from alumni working at senior positions, industry experts has helped us to introduce latest subjects, for example Cloud Computing, Service Oriented Architecture. The young faculty members sent for Ph.D. have also helped introduce new courses on the basis of their Ph.D. topics. Faculty members sent for advance training in conferences, workshops, short term courses. One faculty member sent to France for Post Doctoral Fellow. Feedback/Assessment workshop is held every six months. Quality of question paper and assignments are assessed by senior experts.

1.4.5 Any other information regarding Curricular Aspects which the UTD would

like to include.

ORDINANCE OF THE UNIVERSITY EFFECTIVE FROM 1990, PROVIDE ACADEMIC AUTONOMY TO DECIDE CURRICULUM SUBJECT TO OVERALL CONTROL OF BOARD OF STUDIES.

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 Copy of Advertisements and website info for ensuring publicity and transparency in the admission process

Copy of detailed advertisement are enclosed and the detailed information are available at: www.dauniv.ac.in, www.scs.dauniv.ac.in . The details are as follows:

PhD (Computer Science) -	Through Doctoral Entrance Test (DET)
M.Tech (CS/NM/SE) -	Through GATE and Departmental level counseling as seats allocated by AICTE.
MCA 3 Year -	Through Pre-MCA conducted by VYAPAM
M.Sc(CS/IT), MBA (CM) -	Through CET University level exam
BCA -	Through CET University level exam

File No. 2.1.1

2.1.2 A. Write up details of the process of admission put in place by the department

B. List of the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed

In University test for admitting students in the various courses of the Department is conducted. The criteria is merit in respective category.

2.1.3 Details of admission process in the affiliated colleges if department is monitoring the same.

No, affiliated colleges have separate admission process controlled by Higher Education Dept. of M.P. State.

2.1.4 Student profile analysis

2.1.5 Strategies adopted to increase/improve access for students belonging to the

following categories:

- * SC/ST: State Governments scholarship and reimbursement of fees.
- * OBC: State Government reimbursement of fees
- * Women: 33% reservation in admission in each category
- * Persons with varied disabilities : 3% reservation in admission
- * Economically weaker sections: Financial assistance from student welfare section of the university.
- * Outstanding achievers in sports and other extracurricular activities

Three percent reservation for admission in all courses and waiver in attendance

Course Name: M.Tech

	Categories	Qualifying		Qualifying					
		Min%	Max%	2011	2012				
	SC								
	ST								
	OBC								
	General								

Course Name: M.Tech

	Categories	Qualifying		Qualifying					
		Min%	Max%	2011	2012				
	SC								
	ST								
	OBC								
	General								

The Department follows the rules of MP Govt., for admitting students in different courses.

Categories	Year 2009		Year 2010		Year 2011		Year 2012	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	19	8	31	15	16	10	12	17
ST	10	3	6	2	0	4	4	5
OBC	35	36	55	41	51	29	41	31
General	96	92	76	80	67	71	78	67

Others	-	-	-	-	-	-	-	-
Total	160	139	168	138	134	114	135	120

2.1.6 Number of students admitted in department in the last four academic years:

Categories	Year 2009		Year 2010		Year 2011		Year 2012	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	19	8	31	15	16	10	12	17
ST	10	3	6	2	0	4	4	5
OBC	35	36	55	41	51	29	41	31
General	96	92	76	80	67	71	78	67
Others	-	-	-	-	-	-	-	-

2.1.7 A. Record of demand ratio for the various programmes of the university departments (M.Tech (CS/NM/SE), MCA VYAPAM, M.Sc. (CS/IT))

B. If yes then highlight the significant trends explaining the reasons for increase/decrease.

Programmes	Number of applications	Number of students admitted	Demand Ratio
UG (BCA)	130	39	Vacant
PG M.Tech (CS) M.Tech (NM) M.Tech (IS&SE)	400 (for all three courses)	17 16 16	16: 1
MCA VYAPAM	Admitted thru VYAPAM	60	Selected from Top 60 students
MCA Integrated		25	Vacant (promoted from BCA)
M.Sc. (CS)	300	30	20%
M.Sc. (IT)	300	30	
MBA (CM)	300	24	Vacant
Integrated Masters			

Programmes	Number of applications	Number of students admitted	Demand Ratio
M.Phil.			
Ph.D.	319	11	29:1
Integrated Ph.D.			
Certificate			
Diploma			
PG Diploma			
Any other (please specify)			

2.1.8 A. Record of any programme discontinued/staggered in the last four years?

M.Tech (Bioinformatics)

B. If yes, write-up of the reasons.

- AICTE Approval not received
- Qualified teachers were not available in the Bioinformatics area

2.1.9 Record of Admissions

Programmes	Total Number of admissions	Number of 1st division pass students in qualifying	Number of 2 nd division pass students in qualifying	Entrance test Marks% (Min)
	2012			
UG	39			
PG	169			
Integrated Masters				
M.Phil./ M.Tech	49			
Ph.D.	11			
Integrated Ph.D.				
Certificate				
Diploma				
PG Diploma				
Any other (please specify)				

2.2 Catering to Diverse Needs of Students

2.2.1 A. Record of organization of orientation/ induction programme for freshers

- An Orientation program is organized for fresher students every year before commencement of classes.
- 22nd August, 2012: One Day Orientation Program for I year students – Speaker of Motivational Lecture. Mr. Prakhar Shukti from CH Edgemakers
- 5th Sept 2012: Induction Program : Activities include: Senior Junior Interaction, Meet with Teachers, Lunch, Games and DJ
- Motivation lectures are organized regularly for fresher students.

Like: Motivational Lecture by Dr. Raj Kamal on 20th August, 2012 where the expert motivated the students through stories of Bill Gates, Met Calfe, Steve Jobs, Vincton Cerf, Tim Berner Lee etc. He also briefed upon requirement of communication Skills and to understand and read English Books. Feedback attached in File No. 2.2.1

- 3rd October, 2012 “Come Out of Shell” By: Mr. Rajan Deshmukh (Renowned Theatre artist) & his team. Objectives: 1) To get out of stage fear, 2) To increase creativity, 3) To Develop team skills, 4) To be able to express your emotions assertively and 5) to enhance confidence level.
- 29th October – November 10th 2012, Workshop on English and Communication Skills under Language Lab. Approximate 290 students from various UTD's were registered and participated in the workshop.
- Seminar- “Can I to I Can” for Confidence Building Mr. Sandeep Atre 18th Feb, 2012
- University level induction programme was organized on 15/09/2013. An oath was administered on that day.
- Orientation Programme 2012 : School of Computer Science & IT has organized Motivational lectures and Campus Buzz programs. The speakers are Mr. Sandeep Atre and Mr. Parakram Singh from CH Edgemakers. Mr. Parakram Singh talked on CV Preparation and Interviewing skills for the final year students. Mr. Sandeep Atre delivered motivational lecture for first and second year students in orientation program on 22nd August, 2012.

B. Details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

2.2.2 A. Record of analysis of the “differential requirements of the student population” after admission and before the commencement of classes

Every year SCSIT organizes orientation programme for students where the students are made aware of environment and ethics at SCSIT. They are guided by Head and other senior faculty. Introduction with faculty and other senior students is performed during the orientation programme. The students are also made aware of the academic requirements. SCSIT also try to include external experts and entrepreneurs to motive students.

In October 2012, SCSIT also organized English and Communication Skills course of 10 days duration. All the students of university who were weak in communication skills were identified and special training was provided to them. The faculty Mr. Gaurav Shrivastav delivered lectures on oral and written communication.

Details: 29th October – November 10th 2012, Workshop on English and Communication Skills under Language Lab. Approximate 290 students from various UTD’s were registered and participated in the workshop.

B. Record of key issues identified and addressed

2.2.3 A. Record of bridge/remedial/ add-on courses

- The weak students are identified after each class tests
- The extra classes are arranged for weaker students

B. Time table and details of the courses offered in the department-wise for all courses

List Attached: File No.

Special Remedial classes were organized for weak students from 3 pm. To 5 pm. daily from 11th April 2013 to 25th April 2013. Students approached the faculty for better understanding of topics and for clearing their doubts.

2.2.4 A. Record of the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc

Course	2009-10 (% passed)				2010-11 (% passed)				2011-12 (% passed)				2012-13 (% passed)			
	ST	S C	O B	P H	S T	S C	O B	P H	S T	S C	O B	P H	ST	S C	O B	P H
BCA				-	80	80	80	-	90	90	100	-	93	94	100	100
MCA	95	95	100	-	95	95	100	-	95	95	100	100	100	100	100	100
MTech	100	100	100	-	95	95	100	-	95	95	100	100	100	100	100	100
MSc(CS)	90	90	100	-	95	95	100	-	95	95	100	-	100	100	100	100
MSc(IT)	90	90	100	-	95	95	100	-	95	95	100	-	100	100	100	100

B. Main findings?

The students from backward communities have improved their English and communication skills. Many of them are placed with TCS and are taking up government jobs after 1-2 years of passing from the institution. Therefore, the institute is unable to maintain record of their current employment.

2.2.5 Record of identification and responses to the learning needs of advanced learners

Advanced learners assigned to make on innovative software projects and peruse research oriented projects.

2.3 Teaching-Learning Process

2.3.1 Records of Plan and organisation of the teaching, learning and evaluation schedules (teaching plan, evaluation schedules and methods, etc.)

- The academic calendar of the university and course plan includes

schedule of orientation, induction, orientation, remedial, advanced learner classes, cultural and sports activities.

- Course plan and detailed teaching plan is designed for each course.
- Student kit is prepared for each course and it is given to the students.
- Every teacher maintains teacher's diary cum attendance register and laboratory teachers maintain laboratory cum attendance register
- Evaluation results and the answer copies shown to the students to resolve grievances. Best answers and best copies are also shown.
- Grades are finalized within two weeks at the end of each semester.

2.3.2 A. Record and website info of providing course outlines and course schedules prior to the commencement of the academic session

All the course outlines and schedules are available on www.scs.dauniv.ac.in

B. Methods used for effective implementation

Regular Monitoring by Academic Planning Committee and frequent checks by senior faculty.

2.3.3 A. Record of difficulties in completing the curriculum within the stipulated time frame and calendar

Courses are completed on time. However, in the event of absentees of the faculty due to various reasons or difficult topics taking more time, extra classes are arranged.

B. Write up of the challenges encountered and the departmental measures to overcome these.

- Inadequate full time faculty for theory classes and laboratory.
- Visiting faculties are appointed for the courses and laboratories.

2.3.4 A. Record of student-centric learning activities

Seminars and mini projects offered in all the subjects, where the student is required to apply his theoretical knowledge and concepts in solving real life business/scientific problem.

B. List of participatory learning activities which are adopted by the faculty that contributes to holistic development and improved student learning, besides

facilitating life-long learning and knowledge management.

Regular quizzes and, seminars with student participation organized in every subject.

- 2.3.5 List, record with photographs of activities such as invited experts/people of eminence to deliver lectures and/or organize seminars for students

Seminars, Conferences and Workshops conducted by SCSIT (2008-12)

2008

- National Conference on Architecturing Future IT System (NCAFIS'08) organized by School of computer Science & IT, DAVV Indore during October 17th -18th, 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.
- 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. Rajkamal (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. Chandrashekar, 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. 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 November 2012:
- 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

2.3.6 Record of Encouragement to blended learning by using e-learning resources.

- The power point presentations prepared by faculty are uploaded on the site. The students are encouraged to visit and study the lectures prepared by IIT professors.
- The faculty member encouraged to prepare a technical report describing the availability of e-learning material on various web sites.

2.3.7 Record of facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching

- Three faculty members have delivered VIDEO lectures over EDUSAT through Education Media Research Centre, DAVV.
- Four faculty members engaged in eContent preparation for B.Voc. programme for UGC through EMRC, DAVV.
- Virtual class room planned in 2013-14.

2.3.8 Record of activities of designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes

- Faculty members have joined open source communities.
- The discussions held are informally used for student benefits.
- Presently, PPTs and lectures are placed on the University website.

2.3.9 Record of steps taken to convert traditional classrooms into 24x7 learning places

- The faculty members have prepared power point presentations for the subjects taught. These PPTs are uploaded on the web site.
- The student laptop connected to internet through WiFi for 24x7 learning in campus and hostels.

2.3.10 A. Record of actions taken to avail the services of counsellors/mentors/advisors for each class or group of students for academic, personal and psycho-social guidance

- Class Coordinators are appointed for each class to deal with the student teaching/ learning, exam, events etc.
- Plan in July 2013.
- Mentors are allocated for the course period of every batch. The batch typically is one section of 30 or 60 students. The mentor does counseling every week for

academic, social and career problems. Psychometric test planned for 2013 and psycho counselor will give psychological counseling the students

B. Details of the process and the number of students who have benefitted.

- Class coordinators are appointed for each class and all the students are benefitted by appointing a class coordinator.

2.3.11 A. Record of innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years?

- Detailed course plan with aim & objectives.
- Framing of assignments, test papers and question papers keeping objectives in mind.
- Informal measurement of learning outcomes through results of tests & final exam.

B. Write up of improvement in learning by innovative methods

The students assigned novel software projects on new technologies. List attached

C. Record of recognition to the faculty due recognition for innovation in teaching

Best teaching award after selection by the students. Following teachers are recognized in last six years.

1. Dr Maya Ingle
2. Dr Sanjay Tanwani
3. Dr Deepak Abhyankar
4. Mr. Alok Tiwari
5. Mr. Hemant Mehta
6. Ms. Shweta Agrawal

2.3.12 Record of actions for creating e a culture of instilling and nurturing creativity and scientific temper among the learners

Designing and developing creative software and innovative projects instill and nurture creativity and scientific temper.

2.3.13 A. Record of student projects (if mandatory in each of the learning

programme) List attached

B. Number of projects executed within the university 165 List attached

C. Names of external institutions associated with the University for Student Project Work

- Software companies for example TCS, Infosys, Wipro, Impetus, Cognigent, Accenture, TechLink, and Infobeans etc. provide the project training to the students.
- RR-CAT, Indore
- IIIT Allahabad

D. Role of faculty in facilitating such projects

Faculty members supervise the projects throughout the semester. The projects in the four areas of Database, Network, Software Engineering and Image processing have been done in the respective laboratories.

2.3.14 A. Record of shortfall in qualified faculty to meet the requirements of the curriculum

- All the faculty members are well qualified and recruited according to UGC/AICTE norms. Number of faculty are less than required and it is 13 (03 Professor, 05 Reader, and 05 Lecturer).
- Contract Faculty on UGC payScale(Basic only) -11

B. Record of actions for shortfall supplementation

- Visiting Faculty for lab and allied subjects: 11
- 50 M.Tech. students assist in laboratory for junior classes
- The establishment section of university has released the advertisement and interviews planned in July 2013.

2.3.15 Number of percentage of faculty enabled to prepare computer-aided teaching/ learning materials: 100%

2.3.16 A. Record of Student feedback for evaluation of teachers by the students
Proceedings of teaching learning workshop and student feedback are attached in File No. 2.3.16

B. Record of Alumni feedback for evaluation of teachers by the students

Feedback on course curriculum and teachers in SCSIT Reg.

1.

Inbox x

lakhan verma <lakhanraj2003@gmail.com> Jun 8

to me

Hello Shraddha Mam.
I apologize for delay in reply. It's my pleasure to get this email from your side, even after getting pass out 7 years ago; still memories of SCS are alive in my mind. M.Sc. (CS/IT) Syllabus wise we are matching world's standard. Only I am observing the lack of facilities to implement live projects in latest technologies. College should provide some industrial training to understand live projects implementation cycle. Thanks.
I am currently working with iGate (Patni) as a Technical Lead in Oracle developments. Currently i am deputed at Los angeles California.

Regards

2.Regarding feedback on course curriculum and teachers

Inbox x



Jul 3

Kunal Khanvilkar <kunal.prok@gmail.com>

Hi Shraddha Mem,

First sorry for late reply.

Currently i am in Sweden working as client side so having tight schedule :(.

Current Designation: Consultant (Working as module lead)

Batch:2006-2009

Course Curriculum suggestion:

When I was studying in SCSIT, course curriculum was good. I can see that all the SCSIT students are doing great in Capgemini as well. Got lots of opportunities in different areas.

Few improvements that I can see in our course is listed below

1. More workshops should be introduced to connect students with up-coming market.
2. In the last semester, apart from project some re-search work should be introduced and topics should be based on up-coming market like Big data, cloud, Data ware housing (provided Suggestions are as per my work area).
3. Apart from programming expertise, some other domain related knowledge should be added like more focus on Telecom, finance subjects.

We can add some research work on on-going projects like UID project derived by Infosys, financial domain projects or other government on-going IT projects. This will increase awareness of market.

4. More focus on core subjects like Linux, OS. Linux/Unix is my personal suggestion. I can see that skill is having huge demand in market and we are not getting good resource having hands-on on Linux or Unix.
5. On Data warehousing front, I am aware that some R&D work is going on in SCSIT but how many students are connected with this program that I don't know. But in this area more focus should be on data modeling.

Thanks & Regards

3. Regarding feedback on course curriculum and teachers

Dear Shraddaa Mam

Course curriculum designed for this session is good one..but I do believe there is scope of improvement on following lines..

1. There should be more emphasis on practical approach rather than theoretical..
2. Subjects like mobile computing , cloud computing and m commerce should be included in final semester of students.
3. Mobile application development should be included as separate subject and seminar , conferences should be organized for same.

I know SCS faculties have all the potential to do justice on above mentioned issue and subject. I will be more than happy to contribute in this context.

Thanks & Regards

Apurva Bharadwaj | Head-Business & operations

A “Value added services” focused company

Technology | Content | Outsourcing

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+91 9891653089

4. Regarding feedback on course curriculum and teachers

Inbox x



Srinivasu Somavarapu <somavarapusrinivasu@gmail.com> Jul 5 (13 days ago)

to me

Hi madam,

I hope your doing well. I would like to tell you about our SCSIT, It is one of the excellent department in our DAVV. In our department every lecture are excellent and outstand persons and they will teach very nicely, attractively, and understandably and course curriculum is very good. my suggestion is lectures have to explain subject like application orient. that means how it will work in real time scenarios like. I would like say thanks to Rajkamal sir, tanwani sir and special thanks to Shraddha madam, Preeti saxena madam, Deepak sir, and Chetan sir.

my batch: 2007-2009.

Degnation: SAP CRM Technical consultant

C. Methods used and Impact of the evaluation feedback used to improve the quality of the teaching-learning process

1. Continuous evaluation of the students
2. Student feedback is collected from the students
3. Assessment workshop is conducted at the end of each semester and faculty member discuss the issues they observed in the teaching learning process. The senior faculty members suggest and guide them to improve the teaching learning process.
4. Proceeding of the assessment is prepared and kept with assessment committee of the department.
5. The academic planning committee monitors the implementation.

2.4 Teacher Quality

2.4.1 Record of how the plan and management of human resources was done to meet the changing requirements of the curriculum

Department has specialized faculty members in different areas of computer science. The specialization of faculty members is as follows:

S. No.	Name	Specialization
1.	Dr. Rajkamal	Embedded systems, Microprocessor, Mobile computing
2.	Dr. Sanjay Tanwani	Database and Data mining
3.	Dr. D. S. Bhilare	Networks and Information security
4.	Dr. (Mrs.) Maya Ingle	Natural Language Processing, Computation, Language Theory
5.	Dr. Priyesh Kanungo	Advance Operating Systems, Artificial Intelligence, Data Structures.
6.	Dr. A. K. Goyal	Data Structure using C++, Mathematical foundation of computer science
7.	Dr. Ugrasen Suman	Software engineering
8.	Mrs. Preeti Saxena	Mobile Computing, Computer Networks
9.	Mrs. Shraddha Masih	Data Mining and Warehousing, Data Structures
10.	Mr. Ajay Tiwari	Data Structure, Computer Based Optimization Techniques.
11.	Dr. Hemant Mehta	Distributed Computing Programming Languages, Data Structures.
12.	Mr. Nitin Uikey	Software Engineering, Information Technology Project Management, Database Management System.
13.	Mr. Deepak Abhyankar	Data structure and algorithms
14.	Mr. Anand More	Wireless systems and mobile computing
15.	Ms. Archana Choudhary	Software engineering, ERP
16.	Ms. Chaitali Uikey	Computer Network, Operating System, Simulation, Computer Architecture, Data Structure.
17.	Mr. Hitesh Ninama	Compiler Design, Theory of Computation, Operating System
18.	Ms. Shweta Agrawal	Electronics & Communication
19.	Mr. Chetan Awasthi	Human Computer Interactions & Web Design

20.	Ms. Pritika Bahad	Artificial Intelligence, Mobile Computing
21.	Mr. Pankaj Jagtap	Information Security, Network Security
22.	Ms. Sunita Gaur	Discrete Mathematics, Operating System, DBMS, C language, E- Learning System Architecture.
23.	Ms. Tarjani Sevak	Operating System, Software Engineering, Communication Skills, Organization Behavior, Web designing
24.	Ms. Deepika Rai	Operating System, Theory of Computation
25.	Mr. K. L. Suryawanshi	Data structure, programming languages
26.	Mr. Praveen Shrivastava	Software engineering, data structure
27.	Mr. Shantilal Dawar	Computer Network, Linux, Unix
28.	Mr. Mohit Verma	Website Development, Software Developer

2.4.3 Diversity in its faculty recruitment

Department / School	% of faculty from the same university	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries
School of Computer Science & IT	50%	40%	10%	Nil

2.4.4 A. List of qualified faculty appointed for new programmes/emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Information Technology, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)?

Please refer 2.4.1

B. Number of faculty members appointed to teach new programmes during the last four years

The following full time contractual faculty has been appointed to teach in emerging areas in the last four years:

S. No.	Name	Specialization
--------	------	----------------

1.	Dr. Rajkamal	Mobile Computing and Embedded Systems
2.	Ms. Pritika Bahad	Artificial Intelligence, Mobile Computing
3.	Dr Hemant Mehta	Cloud Computing
4.	Dr S Tanwani	Advanced Database
5.	Dr Rajendra Singh	Ethics and Cyber Laws
6.	Mr. Pankaj Jagtap	Information Security, Network Security
7.	Ms. Sunita Gaur	E- Learning System Architecture.

2.4.5 List of academic recharge and rejuvenation of teachers

A. List of faculty availed and provided research grants by the University

Nil

B. List of faculty availed and on study leave

1. Dr. Hemant Mehta

C. List of faculty nominated to national/international conferences/seminars, in-service training, organizing national/international conferences etc.

S. No.	Name
1.	Dr. Rajkamal
2.	Dr. Sanjay Tanwani
3.	Dr. D. S. Bhilare
4.	Dr. (Mrs.) Maya Ingle
5.	Dr. Priyesh Kanungo
6.	Dr. Ugrasen Suman
7.	Mrs. Preeti Saxena
8.	Mrs. Shraddha Masih
9.	Mr. Ajay Tiwari
10.	Dr. Hemant Mehta
11.	Mr. Nitin Uikey
12.	Ms. Archana Choudhary
13.	Ms. Chaitali Uikey
14.	Ms. Shweta Agrawal
15.	Ms. Pritika Bahad

2.4.7 List of faculty received awards / recognitions for excellence in teaching at the

state, national and international level during the last four years

2007-2013

Dr. Rajkamal

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

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.
- 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

- 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).
- 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

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

Mr. Ajay Tiwari

- 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”.

2.4.8 List of faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Academic Staff Development Programmes	Number of faculty
Refresher courses	07
HRD programmes	Nil
Orientation programmes	04
Staff training conducted by the university	Nil
Staff training conducted by other institutions	02
Summer / Winter schools, workshops, etc.	03
Pursued M.Tech.	07
Pursuing Ph.D.	08

2.4.9 Percentage of the faculty have

- * been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies = **25 %**
- * participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies = **20 %**
- * presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies = **45 %**
- * teaching experience in other universities / national institutions and other institutions = **15 %**
- * industrial engagement = **15 %**
- * international experience in teaching = **10 %**

2.4.10 List and details of organization of academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process

1. 10th Assessment workshop on “Quality assurance, Assessment and Accreditation” e on Jan 23, 2013.
2. 9th Assessment workshop on “Quality assurance, Assessment and Accreditation” Jan 4, 2012.
3. 8th Assessment workshop on “Quality assurance, Assessment and Accreditation” January 29, 2011.
4. 7th Assessment workshop on “Quality assurance, Assessment and Accreditation” on September 15, 2010.
5. 6th Assessment workshop on “Quality assurance, Assessment and Accreditation” on 2nd January, 2010.
6. 5th Assessment workshop on “Quality assurance, Assessment and Accreditation” on 29th May, 2009.
7. 4th Assessment workshop on “Quality assurance, Assessment and Accreditation” on 27th December, 2008.
8. 3rd Assessment workshop on “Quality assurance, Assessment and Accreditation” on 17th May, 2008.
9. 2nd Assessment workshop on “Quality assurance, Assessment and Accreditation” on 29th Dec. 2007.
10. 1st Assessment workshop on “Quality assurance, Assessment and Accreditation” on 6th Nov. 2007.

2.4.11 A. List of faculty encouraged

- * Mobility of faculty between universities for teaching

1. Dr. Rajkamal

2. Dr. Sanjay Tanwani, IIT Indore for teaching data structures & design of algorithms

2. Dr. Mrs. Maya Ingle, IIT Indore, IIITDM Jabalpur for compiler design

* Faculty exchange programmes with national and international bodies

Nil

The university has provision for study/sabbatical leave. The faculty after gaining experience of more than 5 years with the university can avail study/sabbatical leave.

B. Record of schemes helping in enriching the quality of the faculty by such mobility and faculty exchanges

Mutual collaboration and joint preparation of syllabi has helped to improve the quality of curricula at university and the overall teaching-learning methodology.

2.5 Evaluation Process and Reforms

2.5.3 A. Record of time taken by the department for declaration of examination results each semester

Result declared within 15 days after the examination.

B. Record of means adopted for the mode / media adopted for the publication of examination results (Website, SMS, email, etc.).

1. Hard copy of the result is prepared and displayed on the noticeboard.

2. Result is also declared on Departmental website: www.scs.dauniv.ac.in

The department has organized a workshop on 'Quality Issues in Academics, Paper Setting and Evaluation' on Sep 26, 2012.

2.5.4 A. Record of ensuring transparency in the evaluation process

Department follows the ordinance 31. The answer copies are shown to the students. If the student is not satisfied with evaluation, he/she can request teacher for review/ correction. The grievance, not resolved, if any can be

presented before the experts at the end-semester comprehensive viva.

B. Measures taken to ensure confidentiality

Each faculty evaluates copies anonymously and unbiased manner.

C. Record of the Pre-examination processes – Examination Time table generation, student list generation, Invigilators, Attendance sheet are available herewith.

- Pre-exam process for filling exam forms and admit card generation is online.
- The sealed papers are opened 10 minutes before the commencement of the examination.

D. Results of students course wise and its analysis

Bound copies are available in File No. 2.5.4

2.6. Student Performance and Learning Outcomes

2.6.1 A. Write up of articulation of its Graduate Attributes of the department

- Global outlook update with latest technology
- Inculcating the ability for teamwork, ethics, environmental friendly and readiness to help others in students.
- Well defined course objectives and informally mapped to programme objectives.
- The course objectives taught to students and their importance in the first lecture of the semester. The quality of assignments, lab assignments, project work, and the question paper are designed keeping in mind the course objectives.
- The students are groomed so that they are environmental friendly and socially conscious to fulfill the overall mission of serving society

B. Record of facilitation of monitor the implementation and outcome

- Senior professors experienced of accreditation processes
- Time to time monitoring and identify the gap between what is covered against the objectives
- Remedial plans are made to bridge the gap.
- Feedback assessment report reveals the suggestions made to the faculty to bridge the gap between the outcome and the objectives and improvement in teaching-learning process.

2.6.2 A. Record of learning outcomes for its academic programmes

Feedback is taken and analysed for improvement in teaching-learning and bridge the gaps, if learning outcome is not as expected.

Pass out in 2012

S. No.	Course Name	No. of students in First Class with distinction	No. of students in first class	No. of students in Second Class	No. of students Failed
1	BCA	9	52	18	5
2	MCA	19	26	6	-
3	M.Sc(CS)	13	38	5	-
4	M.Sc (IT)	3	19	6	1
5	MBA(CM)	1	3	2	3
6	M.Tech (CS)	11	2	-	-
7	M.Tech (SE)	5		-	-
8	M.Tech (NM)	8	1	-	-
9	M.Tech (BI)	5	-	-	1

Placement and Higher Studies record in File No. 2.6.2

B. Record of making students and staff are made aware of these

The student kits are prepared by the faculty containing aim and objectives and other details. The students are made aware of the course objectives in the beginning of the semester through the lecture and the student kits. The learning outcomes are informed to students in beginning of semester

2.6.3 Write up of department teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes

Each faculty member evaluates the students by conducting internal and external examinations. Also, the students are evaluated by laboratory assignments, participation in quizzes, presentations, classroom and homework assignments. . The quality of assignments and projects are as per the expected learning outcomes. The assessment is as per ordinance 31, which mandates showing copies, collect feedback from examiners on learning outcomes and incorporate their suggestions for improvement in teaching-learning from the next semester.

2.6.4 Record of collection and analysis of data on student learning outcomes and use it to overcome the barriers to learning

Available in the Proceedings of the student feedback and the assessment workshop.

2.6.5 Write up of new technologies deployed by the department in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges

1. Project based teaching
2. ICT Based teaching methodologies
3. Interactive projectors
4. Focus on latest programming languages, for example J2EE, .NET and ANDROID, Windows for Embedded systems.

2.6.6 Any other information regarding Teaching, Learning and Evaluation which the department would like to include.

1. Task force on teaching-learning
2. Workshop on teaching learning on May 10, 2013.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

III.1 Year-wises Publications in the department: (6)

Year	Total
2012-13	18
2011-12	81
2010-11	118

III.2 Number of papers published in peer reviewed journals (national / international)

Year	Total Number of peer reviewed journals
2012-13	9
2011-12	23
2010-11	56

Monographs

Chapters in Books

Edited 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, New York, 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, 1st 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/rajkamal 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/rajkamal Pearson Education, Anna Univ. Edition, 2012, ISBN:9788177585704
6. Switching Theory and Logic Design, Raj Kamal - A Text Book, www.pearsoned.co.in/rajkamal 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:

Books with ISBN with details of publishers

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Citation Index - range / average

SNIP

SJR

Impact Factor – range / average

h-index

III.3 List and Records and Details of patents and income generated: NA

III.4 List and Record of Areas of consultancy and income generated

III.6 List and Record of Faculty selected nationally/internationally to visit other laboratories in India and abroad

III.6 List and Record of Faculty serving in National committees

Dr Rajkamal:

1. Expert Member & Confidential tasks for State Public Service Commissions & Union Public Service Commission.
2. Expert Member/Evaluator, National Board of Accreditation, New Delhi

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

International committees:

1. Dr. M. Ingle

Editorial Boards

1. Dr Rajkamal
2. Dr M Ingle
3. Dr. Ugrasen Suman

III.7 Research thrust area recognized by funding agencies for the department: 1. Database & 2. Data Mining

- UGC infrastructure grant Rs. 10.0 Lacs
- DST-FIST grant Rs. 25.0 Lacs
- UGC-SAP grant Database & Data Mining Rs. 50.0 Lacs

III.8 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 and grants received project-wise. Dr A. More

III.9 List and details of Inter-institutional collaborative projects and grants received :

- Informal collaboration with Dr Hemant Jain, Univ of Wisconsin on Text Mining
All India collaboration b) International

III.10 List and details of Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.

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

III.11 List and Details of 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 Rajkamal has international editions and are published in Chinese and Korean languages and are studied across the globe.

III.12 List and details of Special research laboratories sponsored by / created by industry or corporate bodies

- The university has setup a special lab for blind students with support of NTPC foundation. A training programme of one and half months completed recently in May-June 2013.

3.1 Promotion of Research

3.1.1 A. Composition of Departmental Research Committee, List of members and

minutes of its meeting

To enhance the research activities in the department, there is a need to develop a separate research committee. Departmental Research Committee is thus formed and consists of following members:

1. Dr. Rajkamal (Chair)
2. Dr. S. Tanwani(member)
3. Dr. Maya Ingle(member)
4. Dr. Priyesh Kanungo (member)
5. Dr. D. S. Bhilare (member)
6. Dr. Ugrasen Suman (member)

Objectives

- Develop research in computer science & IT
- Organize and maintain personal contacts among computer science & IT community with common interests;
- Motive for scholarly research and publish scholarly research
- To initiate research activities

Responsibilities

- Encourage, promote and coordinate research into areas of computer science & IT
- Disseminate research related information
- Coordinate research activities
- Submit an annual report of research activities

The departmental research committee has formed code of ethics for research in department. Code of ethics is as follows:

B. Records of DRC regarding monitoring and addressing issues related to research

C. Record of DRC recommendations which have been implemented and their impact.

3.1.2 Information of research centers in its affiliated / constituent colleges which are monitored by the DRC of the department

Ph.D. students selected in Dec 2012 and joined the course

3.1.3 Details of the

- * advanced funds for the sanctioned projects
- * providing seed money
- * Simplification of procedures related to sanctions / purchases to be made by the investigators Planned for 2013-14
- * Autonomy to the principal investigator/coordinator for utilizing overhead charges YES
- * Timely release of grants
- * Timely auditing
- * Submitted utilization certificates to the funding authorities

3.1.4 Record of interdisciplinary research promoted

- * with other departments /schools of the university and School of Electronics, Computer Science & IT, and IET collaborate in running interdisciplinary courses like M.Tech. Spatial Information Technology, Mobile Computing & Embedded Systems.
- * collaboration with national/international institutes/industries
Informal collaboration with Prof. Hemant Jain, University of Wisconsin, Milwaukee on Text Mining & Health Informatics(So far four telephonic meetings on skype and daily mail exchanges in the last semester)

3.1.5 Details of workshops/ training programmes/ sensitization programmes conducted by the department to promote a research culture on campus University level research motivation seminar conducted on January 15th, 2013. National level eminent experts were invited.

3.1.6 A. Details of visits of researchers of eminence to visit the campus as adjunct professors: We have arranged expert lectures by eminent experts like Dr N S Chaudhari, IIT Indore, Dr Sanjay Madria(NTT, Singapore), Dr Vijay Kumar(University of Missouri-Kansas City), Dr Hemant Jain (University of Wisconsin), Dr R C Sharma(Univ of South Korea), Dr P S Grover, University of Delhi, Dr P K Chande (Ex-Prof, IIM Indore), Dr Parag Kulkarni,Ph.D, IIT Kharagpur. Padamshri Dr D.B. Phatak delivered a lecture on April 26th, 2013. Dr H.M. Gupta delivered lecture on Mobile Computing. They have delivered lectures in the university for students motivation and guidance on frontier

technologies.

B. Impact of such efforts on the research activities of the university

The students, staff and research scholars were guided and motivated to work hard on research front.

3.1.7 A. Percentage of the total budget of the department which is earmarked for research.

The university does not allocate separate funds for research to the department. Funds for equipment purchase, books, travel, journals are allocated, which serve the research purpose too. All the faculty members are permitted attend/participate and present papers and are reimbursed allowances and registration fee.

B. Details of heads of expenditure, financial allocation and actual utilization DPE; DBT, ICSSR, etc.; total grants received.

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
4	UGC	Xith Plan	20.0 Lacs
5	UGC	Lang. lab	16.0 Lacs

3.1.8 A. Details of University funded research and awarded Post Doctoral Fellowships/Research Associate ships

B. List of students registered with record of source of funding by the university and other sources

3.1.10 A. List and percentage of faculty which have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and

abroad

1. Dr M Ingle, M.Tech, IIT Kharagpur.
2. Dr P Kanungo sent on one year study leave for Ph.D. in 2006
3. Dr D S Bhilare sent on one year Ph.D. study leave in 2009.
4. Dr Hemant Mehta sent on study leave for Post Doctoral to Ecole des Mines de Nantes, France in Jan 2013

B. Record of the output of these scholars

- a. Dr M Ingle was awarded Best Teaching Award 2005 based on feedback of SCS students. She has published 45 research papers in 2008-13
- b. Dr S Tanwani was awarded Best Teaching Award 2006 based on feedback of SCS students. She has published 13 research papers in 2008-13
- c. Dr H Mehta was awarded Best Teaching Award 2008 based on feedback of SCS students. He has published 13 research papers in 2008-13.

3.1.11 A. Details with photographs of national and international conferences organized

1. Workshop on Mobile Computing March 5, 2012
2. Workshop on Teaching Methodologies in Database and Data Mining on Feb 13, 2012
3. Workshop on Quality Issues in Academic, Paper setting and Valuation Sep 26, 2012
4. Workshop on e-Governance on December 15, 2012

B. List highlighting the names of eminent scientists/scholars who participated in these events.

- Ms. Vineeta Dixit, Principal Consultant, NeGP, MITI, Govt of India
- Padamshri Dr D B Phatak, Professor, Computer Engg. Dept., IIT Mumbai
- Dr H.M. Gupta, Professor, Electrical Engg., IIT Delhi
- Dr Vijay Kumar, Professor, University of Missouri-Kansas City
- Shri M. P. Bhargava, CEO, MP Online, Bhopal
- Dr P K Chande, Ex-Professor, IIM, Indore
- Dr N S Chaudhari, Professor, Computer Engineering, IIT Indore, Now Director, VNIT, nagpur
- Mr. Deepak Shirahatti, Sr Officer, NIC, Khargone
- Shri Ashok Holani, Entrepreneur, Genesis Technologies

- Shri V R Sathe, Sr Executive, Impetus InfoTech, Indore.

3.2 Resource Mobilization for Research

3.2.1 Record of Financial provisions made in the university budget for supporting students' research projects:

The students for their projects in computer science mainly need a desktop. The department has ample budget for buying new desktops every three years and upgrade the old ones.

Also, the department has acquired the software licenses for the following since last five years over and above the syllabus requirements:

- PSW Modeller 13.0
- SQL Server
- Windows Server 2008
- Rational Rose

Most of the students use freeware software or demo copy for academic projects.

3.2.2 A. Record of special efforts to encourage its faculty to file for patents

University level workshop organised by School of Bio Chemistry at School of Computer Science to introduce the young researchers on the aspects of:

- Understanding what the patent is?
- The agency and the formats for the patents to file in
- The time generally taken and the financial aspects involved.
- The establishment of university level support for travel/ followup.

B. List of registered and accepted patents.

NIL

3.2.3 Details of ongoing research projects of faculty:

	Year wise	Number	Name of the project	Name of the funding agency	Total grant received
A. University awarded projects					

Minor projects					
Major projects					
B. Other agencies - national and international (specify)					
Minor projects					
Major projects					

3.2.4 A. Record of projects sponsored by the industry/corporate houses

Software project made for Sindhu Sahkari Bank

Funded by the department

- i. Mobile based audio conferencing system
- ii. Teachers' Diary Portal funded by the department
- iii. Mobile based attendance register
- iv. Image processing aspects in brain tumour under the guidance of Dr A. Puranik, leading neuro physician and Dr M Ingle, Professor, SCSIT

B. Details such as the name of the project, funding agency and grants received.

3.2.5 A. Details of Department recognition for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and the quantum of assistance received

DPE; DBT, ICSSR, etc.; total grants received.

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

B. Record of any two significant outcomes or breakthroughs achieved by this recognition.

Started Data mining lab in March 2010 through a grant of 29.0 lacs received under UGC-SAP

Attached List of Publications

3.2.6 List details of

- a. research projects completed and grants received (funded by National/International agencies).
- b. Inter-institutional collaborative projects and grants received
 - i) All India collaboration
 - ii) International

3.3 Research Facilities

3.3.1 A. Infrastructure in the department to facilitate research

- All the faculty members provided a desktop, printer and an internet connection to facilitate research.
- The department has two IBM servers, which are dual processor on quad core to facilitate research to exploit parallel processing and the use of multi cores to boost performance.
- Well equipped library with a blend of text and books required for research.
- Library has subscribed to online journals, which includes access to topmost journals in computer science like ACM, IEEE & Elsevier.
- Separate research laboratory for research scholars.

B. Strategies have been evolved to meet the needs of researchers in emerging disciplines

3.3.2 A. Information and Resources catering to the needs of researchers of the department

B. Details of the facility.

3.3.3 Record of University Science Instrumentation Centre (USIC) facilities been made available to research scholars

3.3.4 Record of provision of residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)

3.3.5 Details of Uses of the Facilities of IUC, CAT, NRCS, IIT Indore and other

specialized Research Centers for research.

- Ms. Alpana rajan, Sr. Scientist at RRCAT pursuing her Ph.D. and using HP cluster system to exploit parallel processing research. The system cost is Rs. 10.0 crores.
- Ms. Savita Kolhe, Sr. Scientist at National Research Centre for Soyabean (NRCS) has completed her Ph.D. on expert systems for crop prediction. The research was done at NRCS using their computing infrastructure.

3.4 Research Publications and Awards

3.4.1 Research journal published, if any, from the department(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

3.4.2 Details of publications by the faculty:

- * Number of papers published in peer reviewed journals (national / international)
- * Monographs
- * Chapters in Books
- * Books edited
- * Books with ISBN with details of publishers
- * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.)
- * Citation Index - range / average
- * SNIP
- * SJR
- * Impact Factor - range / average
- * h-index

3.4.3 Details of

- * Faculty serving on the editorial boards of national and international journals .
Faculty Dr Rajkamal, Dr S Tanwani, Dr P Kanungo & Dr M Ingle has reviewed papers submitted for CSI Journal
- * Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies

Dr Rajkamal, Dr M Ingle, and Dr S Tanwani as keynote speaker in large number of international conferences held in reputed organisations

Dr Rajkamal, Dr M Ingle, Dr S Tanwani and Dr D S Bhilare as session chair in large number of international conferences held in reputed organisations.

File No. 3.4.3

3.4.4 Details of

- * Research awards received by the faculty and students

Two faculty members Dr Rajkamal and Dr Hemant Mehta awarded national level prize

Dr Rajkamal got best paper award by Indian Society of Agricultural Statistics for best paper in 2012.

Ph.D. thesis of Dr. Hemant Mehta got Runner-up position in Outstanding Doctoral Dissertation Award in International conference on soft Computing for Problem Solving (SocPros 2011) at IIT Rookee in Dec 2011.

- * National and international recognition received by the faculty from reputed professional bodies and agencies

- * Dr. Hemant Mehta was awarded Nixi Fellowship worth 1000\$ to participate In 20th International WWW Conference, 2011 at Singapore.

3.4.5 A. Number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years : List Attached

- B. University participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access

3.4.6 A. Record of Promotion e interdisciplinary research

Inter-Institutional Collaborative research has been undertaken with National Research Center for Soybean, Indore and following papers published

1. Machine learning techniques for Mobile Intelligent Systems: A study, Archana Chaudhary, Savita Kolhe and Raj Kamal, Ninth International Conference on Wireless and Optical Communications Networks (WOCN), 20-22 Sept. 2012, published in IEEE Xplore, 2012 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6335538&contentType=Conference+Publications&sortType%3Dasc_p_Sequence%26filter%3DAND%28p_IS_Number%3A6331881%29%26pageNumber%3D4 ISBN 978-1-4673-1988-1

2. An intelligent multimedia interface for fuzzy logic based inference in crops, Savita Kolhe, Raj Kamal, Harvinder S. Saini and G. K. Gupta, Expert System with Applications 38:12 (2011) pp. 14592-14601. (5-Year Impact Factor = 3.162)
3. Rule Promotion: A new fuzzy logic approach for drawing inferences in Rule Based expert System, Savita Kolhe, Raj Kamal, H.S. Saini ,and G.K.Gupta, www.isas.org.in/isas Journal of Indian Society of Agricultural Statistics, 65(3) (2011) 359-365 [NAAS Impact Rating 5.1]
4. A web-based intelligent disease diagnosis system using a new fuzzy logic approach for drawing the inferences in crop, Savita Kolhe, Raj Kamal, H.S. Saini ,and G.K.Gupta, International Journal of Computers and Electronics in Agriculture 76:1, pp. 16-27, 2010. (5-Year Impact Factor = 1.647)
5. Knowledge Engineering for an Expert System on Crop Disease Management, Savita Kolhe, Raj Kamal, Harvinder S. Saini and G. K. Gupta, Journal of Computer Science. (Accepted in Sep 2010)

Inter-Institutional Collaborative research has been undertaken with CDAC, Mohali, Punjab and following papers published

1. Data Diversity of a distributed Honeynet based malware collection system, Saurabh Chamotra, Rakesh Kumar Sehgal, Dr. Raj Kamal ,J.S.Bhatia, International Conference on Emerging Trends in Networks and Computer Communications (ETNCC-2011),IEEE, ISBN: 978-1-4577-0239-6
2. Deployment of a Low Interaction Honeypot in an Organizational Private network, Saurabh Chamotra, J.S.Bhatia , Dr. Raj Kamal, Dr. A. K. Ramani International Conference on Emerging Trends in Networks and Computer Communications (ETNCC-2011) ISBN: 978-1-4577-0239-6
3. Honeysand: An Open Source Tools Based Sandbox Environment for Bot Analysis and Botnet tracking, Saurabh Chamotra, Dr. Raj Kamal, Mr Rakesh Kumar Sehgal, International Conference on Communication and Networks (Conference CoMNeT-2011)),Published in special issue with IJCA

Inter-Institutional Collaborative research has been undertaken with Military College of Telecommunication Engineers, Mhow and following papers published

1. Multi-output LFSR Kernel Architecture and low power design for the Link Encryption in Bluetooth and WiMax Protocols in Software Defined Radios, C N Khairnar, Sanjiv Tokekar and Raj Kamal, IEEE Explore, Proceedings of the International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2010, 978-0-7695-4201-0/10, IEEE, DOI 10.1109/ARTCom.2010.81, pp 45-50, Oct 2010
2. Low-power LFSR Kernel Architecture in Mobile Transmitter and Receiver Protocols and Software Defined Radios, C N Khairnar, Sanjiv Tokekar and Raj Kamal, International Journal of Recent Trends in Engineering (ISSN: 1797-9617),Vol. 2, No. 1, pp20-26, Nov 2009

Inter-Institutional Collaborative research has been undertaken with Cummins College of Engineering and Experiments at Cummins Engines, Pune and following papers published

1. Adaptive Fault Diagnosis Algorithm for Controller Area Network (AFDCAN), Supriya Milind Kelkar and Raj Kamal, Communicated, April 2013
2. Control area network based quotient remainder compression-algorithm for automotive applications, Supriya Kelkar and Rajkamal, Proc. of IECON 2012, 38th Annual Conference of the IEEE Industrial Electronics Society, Montreal, Canada, October, 2012.
3. Comparison and Analysis of Quotient Remainder Compression Algorithms for Automotives, Supriya Kelkar and Rajkamal, Proc. of International Conference on Advances in Electrical, Electronics, Communication and Information Technology ,INDICON 2012, IEEE International Conference, Kochi, India, December, 2012.
ISSN: 2010-3689

B. Number of interdepartmental / interdisciplinary research projects undertaken

The research undertaken by Dr Rajkamal is interdisciplinary in collaboration with National Research Centre for Soyabean, School of Electronics and Department of Electronics and Telecommunication engg.

Interdepartmental 2012-13 Three

Interdepartmental IQAC Research Publications

1. *Paper "Suggested Quality Indicators for Services of Centers for Information Technology, Computers, Daycare and the hostel in Universities and Colleges"*, Raj Kamal¹, Vrinda Tokekar², D. S. Bhilare³, Pratibha Sharma⁴, Paresh Atri⁵ and Jitendra Singh⁶ National Seminar on 'Quality Assurance Practices in Higher Education: India and Canada', Maharaja Sayajirao University of Baroda, Vadodara, 15-16 February, 2013
2. Presented paper at Workshop On Quality Issues in Academics, Paper Setting & Valuation, School of Computer Sciences and IQAC , Devi Ahilya University, Sept. 26, 2012
3. "Innovative courses and programs with self support a Best Practice of Devi Ahilya Vishwavidyalaya" Raj Kamal, Proc. National Workshop for IQAC-Coordinators of Universities, Bangalore, July 04-05, 2012.

Interdisciplinary 2008-13: Thirteen Research Papers

Number of National Institutions: 4

C. Mention the number of departments involved in such endeavours

Three departments involved. They are named as below:

1. School of Electronics, DAVV, Indore Interdepartmental
2. National Research Centre For Soyabean (NRCS) at Indore
3. Department of Electronics and Telecommunication engg., New Delhi

Five Research Papers related to IQAC.

3.4.8 List of University instituted research awards to the faculty of the Department
Appreciation letters were awarded by Vice-Chancellor to the computer science
faculty members.

3.4.9 Details of incentives given to the faculty for receiving state, national and
International recognition for research contributions.

Appreciation in department meetings and functions of the department and the
university.

3.5 Consultancy

3.5.1 Important consultancies undertaken by the department during the last four
years.

Dr. S. Tanwani

- a. Expert Member, MP Road Development Corporation
- b. Expert Member, Technical Committee, State Bank of India
- c. Consulted computer centre staff for on online registration, enrolment, exam
form filling, admit card print of more than 1,80,000 students.
- d. Visiting Faculty, IIT Indore from July 2010 to April 2011

Dr. D.S. Bhilare

- a. Expert Member, MP Road Development Corporation
- b. Active participation in examination system automation for the university as Head,
Computer Centre.

Dr. M. Ingle

- a. Visiting Faculty, IIIT Jabalpur
- b. Visiting Faculty, IIT Indore from July 2010-Dec 2010

The consulting initiatives taken by the department for modernization of examination
system will be replicated in the entire state. The department faculty members along
with computer centre staff are engaged in bringing automation to the university
system, specially the examinations.

3.5.2 A. Department participation in university-industry cell

B. If yes, what is its scope and range of activities

3.5.3 Record of publicizing the expertise of the department for consultancy services
The expertise of the department for consultancy services available at
http://www.scs.dauniv.ac.in/Consultancy_SCSIT%20_1_.pdf

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 A. Department records of sensitization of faculty and students on its Institutional Social Responsibilities

- Blood donation camp on every teacher's day
- Distribution of items to poor through the sanstha 'Samarpana'
- Tree plantation under green calendar
- Khan river cleaning
- Cleaning of polythene waste from the department and the surrounding

B. List the social outreach programmes which have created an impact on students' campus experience during the last four years.

3.6.2 Promotion of neighborhood network and student engagement and holistic development of students and sustained community development?

3.6.3 Record of participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes :

- Seminar on "Tobacco and its harms"..... by Indian Dental Association and Dental College for UTD students organized
- Seminar on "Women Health and Well Being" By- Dr. Purna 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.

3.6.4 Records of tracking the students' involvement in various social movements / activities which promote citizenship roles:

SAMARPAN: - Regular activity organized by students where the students collect clothes, book, stationary etc. from the students and faculty of the department and then distribute them to needy people in slum areas.

BLOOD DONATION CAMP:- Students have also organized blood donation camp in SCSIT during teachers day/ annual function

3.6.6 Write up of the values inculcated and skills learnt during extension activities.

1. Special motivational lecture was organized on 27th Feb, 2013: TOPIC: "Motivation.....is all that you need" BY-Mr. Surendra Singh Chauhan (Front ranking educator, Idealist , Humanist , Writer , Reviewer and keynote speaker of various International conferences)

The students learned to respect and care for others, made environment conscious and motivated to serve the society.

2. Peace day 30th Jan 2013 Mission : Eco Friendly
3. On occasion of Basant Panchami, students cleaned the campus on 14th Feb, 2013.
4. School of Computer Science has also included "Environment Awareness" as a compulsory subject for BCA students.

3.6.7 Department community in its outreach activities

3.6.8 Details of awards received by the institution for extension activities and/contributions to social/community development during the last four years

3.7 Collaboration

A. MOU Copies and Record of collaboration with other agencies impacted the visibility, identity and diversity of activities on campus (8)

MOU with

1. Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
2. National Research Centre for Soyabean (NRCS), Indore
3. I²IT, Pune.

B. Record of benefits academically and financially because of collaborations

3.7.2 Records of linkages resulted in

* Curriculum development

- Participation of Dr Anil Rawat, Sr. Scientist, RRCAT and DR Savita Kolhe, NRCS in curriculum design.

- * Internship

- * On-the-job training

12 M.tech students trained at RRCAT, Indore for one year project.

- * Faculty exchange and development

- * Research

Ms. Alpana Rajan, Sr. Scientist, RRCAT persuing Ph.D.

Dr Savita Kolhe, NRCS, Indore and Mr. Mahesh Deshpande, I2IT, Pune completed Ph.D.

Mr. S. Tyagi has M.Tech by Research

- * Publication

List of joint publications by the above attached.

- * Consultancy

- * Extension

- * Student placement

Ten students employed with these organizations now.

- * Any other (please specify)

3.7.3 A. Copy of MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.

B. Record of enhanced the research and development activities

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

3.7.5 Any other information regarding Research, Consultancy and Extension, which the university would like to include.

1. REIMBURSEMENT OF 85% TO ASSISTANT PROFESSOR, 70% TO ASSOCIATE PROFESSOR AND 50% TO PROFESSOR AGAINST MEMBERSHIP FEE OF TOP INTERNATIONAL BODIES FOR RESEARCH, WHICH PUBLISH RESEARCH JOURNALS.

2. Reimbursement of Internet broadband charges for Ph.D. guides up to Rs. 650/- per month.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 A. Details of Department physical infrastructure

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 by other UTD for is used for organizing lectures, conferences and workshops. 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 facility: Enabled on all computers

Multimedia Lecture theatres: 02

Multimedia enabled faculty meeting hall: 01

Projectors: 04 working

B. Maintenance of Laboratories for its optimal utilization

University has a budget of Rs 3.00 lacs for maintenance of laboratories and computer systems for its optimal utilization in the budget head: Computer Centre Est. 2(16) B. In this head AC, laboratory equipments are maintained.

C. Maintenance of Computers for its optimal utilization

Minimum down time of computers is being maintained in the school. A comprehensive AMC of computers and line printers is given by the Computer Centre every year. University has a budget of Rs 3.00 lacs for maintenance of laboratories and computer systems for its optimal utilization in the budget head: Computer Centre Est. 2(16) B.

Anti virus software installed at IT centre and every desktop. The IT centre has spent more than 5 lacs for the purpose.

D. Maintenance of UPSes, Power Supplies

AMC of UPS is given every year by Computer centre.

E. Maintenance of support services, sanitation, first aid boxes

First-Aid box available. Health centre within 80 m distance.

F. Maintenance of building, garden, indoor games structure

The department has a gardener and cleaning staff to maintain building & garden

4.1.2 Record of new initiatives for Infrastructure for promote a good teaching-learning environment- Internet, Wi-fi, Power Point Projectors, Video Equipment

- WiFi and cable internet in all class rooms, library and laboratories
- Seven auditoriums:
 - One big auditorium of capacity 240 well furnished with echo and equipped with multimedia projection system.
 - One auditorium of capacity 120 well furnished with echo and equipped with multimedia projection system.
 - Five auditoriums used for classroom teaching out of which one equipped with multi media projection systems.

4.1.3 Physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services

-Well equipped lab infrastructure

4.1.4 List of Facilities like office room, common room and separate rest rooms for women students and staff

4.1.5 List of the infrastructure facilities are disabled-friendly

- Ramps are available at ground floor to reach the class rooms conveniently.

-Internet facility and related software tools for visually challenged at IT Centre

-The university with support of National Thermal Power Centre (NTPC) has established a modern computer facility for visually challenged students.

3.1.8 Departmental special facilities are available on campus to promote students' interest in sports and cultural events/activities

Chess, Carrom, Table Tennis & Badminton facilities available.

Centralised facility available for all other indoor and outdoor games

Auditorium with excellent sound and echo ambience suited for organizing international level musical events is available

4.2 Library as a Learning Resource

4.2.1 Details of departmental library facilities:

- SCS IT Department :- It is fully automated library. It has 16,053 text books & reference books are available in the library, All the books of library are fully

bar-coded. All the books Information are present in our library data base software. library provide opaque facility for the teachers and students of the department.

_ we use a software that is made by UGCINFCLBNET Name of the software is (SOUL 2.0) It is fully updated automated software. We provide 4 books to each students for 5 days and It could be renewal after due date.

- For SC/ST students, we provide 3 books to each students those who are some in SC/ST category upto full semester.
- 1100 e lecture CDS are available for all the member of the department.
- All the books are secured by radio frequency. Antenna installed in entry gate of Library. There are Six person/employee are working in the Library.

Details of the library facilities at the School of Computer Science & IT,
DAVV, Indore:

- Faculty members can get 10 books issued at a time.
- Students can get 4 books issued for a period of 15 days.
- This is the only department having 3 counters for book issue/return. This saves a lot of time.
- Online public access catalogue facility is provided to get the books status.
- The books are well arranged subject wise on the shelves for easy access.
- 16 magazines are subscribed including popular magazines for the competitive exams.
- 5000 e-journals are available on different subjects.
- The library is fully automated. The books are bar coded and the issue/return is automated instead of manual issue/return.
- RF antenna is installed on the entrance for security.
- The latest updated software (Inflibnet) from UGC is installed.

4.2.2 Provide details of the departmental library:

- * Total area of the library (in Sq. Mts.) = 575.05 Sq. Mts
- * Total seating capacity = 78 students
- * Working hours (on working days, on holidays, before examination, during examination, during vacation) =Morning 10.30 A.M. to 5.30 P.M.
(on every working day.)

- * Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)
- * Clear and prominent display of floor plan :-
 - Ground floor:-
Book Collection Room, Study Room, Project Report room, Book Circulation Counter, Book acquisition section, process section.
 - o First floor:-
Personal Reading Book section.
- * Adequate sign boards;
 - Keep silence, Mobile Prohibited area etc. Sign Boards are display in various parts of Library.
- * Fire alarm = Is available in auditoriums. to be installed soon in library and other administrative blocks
- * Access to differently-abled users= No such students in department.
- * Mode of access to collection = open access system.
- * Installation of computers for digital library and language laboratory

4.2.3 Departmental library holdings:

- a) Print
 - Volumes - 16070 Titles- 2314 and Theses- 487
- b) Average number of books added during the last three years
 - o Books purchased:

Year	Books
2012-13	1243
2011-12	359
2010-11	119
Total in last three years	1721

- c) Non Print = 1100 video Lecture CD are Available.
- d) Electronic = 5000 E-Journals are accessible in SCSIT campus.
- e) Special collections (e.g. text books, reference books, standards, patents)
 - 15603 text Books
 - 450References Books

Total 16053 Books are available in the library.

4.2.4 Records of tools the library deploys to provide access to the collection

- * OPAC = Facility is available in the library.
- * Electronic Resource Management package for e-journals
- 5000 E- Journals.
- * Federated searching tools to search articles in multiple databases
- Not available.
- * Library Website = Available.
- * In-house/remote access to e-publications = Available through internet.

4.2.5 Use of ICT deployed in the library

- * Library automation = is done.
- * Total number of computers for public access = Two computers
- * Total numbers of printers for public access = not available to students.
However, specific printing need of student with permission of teacher is served.
- * Internet band width speed = 2mbps
- * Institutional Repository = Available.
- * Content management system for e-learning e- Lecture CD'S are available.
- * Participation in resource sharing networks/consortia (like INFLIBNET)
- Library Provide software. Name of software SOUL SOUL 2.0

4.2.6 Details (per year) with regard to

- * Ratio of library books to students enrolled .584.
- * Average number of books added during the last four years
 - Year 2009-10=220 Books purchased.
 - Year 2010-11= 119 Books purchased.
 - Year 2011-12= 359 Books purchased.
 - Year 2012-13 = 1243 Books Purchased.

Total:- 1941 Books added during last 4 Years.

- Average 485 Books Added during last 4 Years.
- * Assistance in searching Databases

- 5 Persons/staff member are assisted in searching Data base.

* INFLIBNET/IUC facilities

- Library Software SOUL 2.0 Facility Provided by INFLIBNET. It is used in our Library.

4.2.8 Annual departmental library budget and the amount spent for purchasing new books and journals.

- Annual department Library budget is 5 Lakh Rupees.

- In Sesion 2012-13 Library spend amount for Purchasing Books Rs. 4.09, 873 in words Four Lakh Nine Thousand eight hundrded seventy three Rupees.

Over and above department library, central library is located nearby with ample budget to serve the needs of the students.

4.3 IT Infrastructure

4.3.1 Details of Department IT and ICT Infrastructure:

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 by other UTD for is used for organizing lectures, conferences and workshops. 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 library is located within the main building is spacious and well organized. It is managed by an advisory committee. It has about 16070 books and offers a book bank facility for the benefit of students. Cataloguing and lending of books is computerized. It has facilities for reprography, educational material in the form of compact discs and computers with CD drives which can be used for accessing the CDs. It also provides internet facility to the staff and students. Library facility includes access of on-line journals like IEEE, ACM, Science direct and other well known internal study materials which include video and web lecture material of *IITs*, *IISc*' and MIT. The students can access internet either through desktops, or anywhere in campus using their laptop and Wi-Fi facility.

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 Globarena software are provided to students of all classes.

- Computer Labs: 06
- Servers: 05
- No. of computers: 241
- Internet and wifi facility: Enabled on all computers
- Multimedia Lecture theatres: 02
- Multimedia enabled faculty meeting hall: 01
- Projectors: 04 working
- Detailed list attached

4.3.2 Details of the computing facilities i.e., hardware and software.

- Number of systems with individual configurations –
Computer Systems Total No. – 241
Enclosed individual configurations
- Computer-student ratio - 241 computers for 600 student:: 1:2.5
- Dedicated computing facilities -05 Servers
- LAN facility – 100% computers in the network with Wi-Fi enabled service.
- Proprietary software –Enclosed list of items
- Number of nodes/ computers with internet facility -100% computers having Internet facility provided by IT Centre.
- Any other (please specify)

- 4.3.3 Plans and strategies for deploying and upgrading the IT infrastructure and associated facilities
- 4.3.4 Details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.
- 4.3.5 IT facilities available to individual teachers for effective teaching and quality research
- 4.3.8 A. Details of ICT-enabled classrooms/learning spaces available
B. Record of utilization for enhancing the quality of teaching and learning
- 4.3.9 Records of Faculty and computer- aided teaching-learning materials
- 4.3.10 Department availing of the National Knowledge Network connectivity
- 4.3.12 Record of Availing of web resources such as Wikipedia, dictionary and other education enhancing resources
- 4.3.13 Department budget for the update, deployment and maintenance of computers
University has a budget of Rs 3.00 lacs for maintenance of laboratories and computer systems for its optimal utilization in the budget head: Computer Centre Est. 2(16) B
- 4.3.14 Details of plans envisioned for the gradual transfer of teaching and learning from closed university information network to open environment

4.4 Any other information regarding Infrastructure and Learning Resources which the university would like to include.

ICT facilities in our department are one of the best in the country. The school was first in taking initiative for laying fibre in the whole campus in 1999. By now, all the desktops of the school are internet ready.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

- 5.1.1 Department system, structural and functional characteristics for student support and mentoring

The department has following Committees for various student services :

- The Academic Planning Committee
- Student Co-curricular & Placement Committee
- Result & Examination Committee
- Assessment & Research Committee
- Laboratory & Infrastructure Development Committee
- Library Development Committee
- Students Clubs
- Discipline, Grievances and Complaints cell

5.1.2 Record of 'apart from classroom interaction', the provisions available for academic mentoring

5.1.3 Record of department students utilization of personal enhancement and development schemes such as career counseling, soft skill development, career-path-identification, and orientation to well-being for its students.

1. Workshop on Career Opportunities Oct 22, 2010, Speakers Dr H M Gupta, IIT Delhi, Dr Rajkamal, Dr N S Chaudhari & Dr S Tanwani
2. Personality Development, 22nd August 2012, by Mr. Prakhar Shulti from CH Edge Makers
3. Campus buzz, 22nd August 2012 by Mr. Prakhar Shukti from CH Edge Makers
4. Interview preparation, 18th August 2012, by Mr. parakram Singh from CH Edge Makers
5. Senior-Junior Interation, Teachers Felicitation, Sep 5, 2012
6. Drama and personality, Oct 3, 2012 by renowned theatre artist Mr. rajan Deshmukh
7. Interview Ettiquets, 17th jan 2013 by Mr. Sandeep Atre
8. Class Mentoring & Guidance, 19th Jan 2013 by Dr Rajkamal
9. Genesis 2013 TechFest Feb 5th & 6th, 2013 (Held every year)
10. Emotion Based Computing, Feb 6th 2013 by Dr M. Ingle
11. Motivational lecture on Feb 27th, 2013 by Shri Surendra Singh Chouhan.
12. Campus clean drive: every week
13. Woman Health & Well Being Feb 21st 2013 by Dr Prerna Jain

5.1.4 Department publish its updated prospectus and handbook info annually on website and online access of course plans, syllabi and result : available at SCS&IT website : www.scs.dauniv.ac.in

- 5.1.5 A. Records of the Timely dissipation of financial aid
The financial aid is disbursed as and when received.
- C. Tables for type and number of scholarships/free-ships given to the students during the last four years the following categories:
UG/PG/M.Phil/Ph.D./Diploma/others
1. Scholarship and fee reimbursement to ST/SC and OBC through state government
 2. All M.Tech. courses run by the department are AICTE approved. Most of the students taking admission in M.Tech. are GATE qualified and receive Rs. 8000/- per month as stipend.
 3. One student received scholarship from minority cell and few students receive financial assistance from the community they belong to.
 4. Few students employed in the department under earn-while-learn scheme and receive financial support by the university.
- 5.1.6 Table of percentages of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)
- 5.1.7 Department use of International Student Cell, number and list of foreign students
- 5.1.8 Department support services available for
- * Students participating in various competitions/conferences in India and abroad : Y
 - * Physically challenged / differently-abled students
 - * SC/ST, OBC and economically weaker sections
 - * Health centre, health insurance etc.
 - Avail the facility of University Health Centre, which is 80 m away.
 - * Skill development (spoken English, computer literacy, etc.)
 - English Language LAB
 - * performance enhancement for slow learners

- Results of tests are declared at time to identify the slow learner students. Extra classes, assignments are prepared for them accordingly.

* exposure of students to other institutions of higher learning/ corporates/business houses, etc.

* publication of student magazines

* Record of student participation in sports and extracurricular activities

- Record attached.

5.1.9 Placement Records : Y

5.1.10 Number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

5.1.11 A. Record of registered Alumni Association

B. Record of activities and contributions to the development of the department

C. Record of alumni meets

5.1.12 A. Committee members and record of student grievance redressal

B. Details of the nature of grievances reported and the redressal

5.1.13 A. Record of anti-ragging committee : Y

B. List of instances reported during the last four years and what action has been taken in these cases

5.1.14 Details of the cooperation rendered by parents, industry and its stakeholders to ensure the overall development of its students : Y

5.1.18 A. List of participation of women students in intra- and inter-institutional sports competitions and cultural activities : Y

B. List of participation of women students in intra- and inter-institutional sports competitions and cultural activities : Y

5.2 Student Progression

5.2.1 Analysis of progression and trends for the last four years.

Student Progression	%
UG to PG*	72%
PG to M.Phil.*	20%
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	1%
Employed	

Student Progression	%
• Campus selection	50% eligible
• Other than campus recruitment	35%

5.2.2 Programme-wise pass percentage during the time span stipulated

5.2.3 Records of Number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc. : Y

5.2.4 List category-wise with details regarding the number of Ph.D./~~D.Litt./D.Se.~~ thesis submitted/ accepted/ ~~resubmitted/ rejected~~ in the last four years : Y

Year	Total Ph.D. Awarded
2008-09	5
2009-10	1
2010-11	4
2011-12	5
2012-13	8 (so far)

S.No	Guide	Co-Guide (If Any)	Candidate Name	Title
1	DR. UGRASEN SUMAN	LATE. PROF. A.K. RAMANI	DHIRENDRA PANDEY	INVESTIGATION OF THE EFFECTIVENESS OF REQUIREMENT ENGINEERING PRACTICES IN SOFTWARE DEVELOPMENT PROCESS
2	DR. UGRASEN SUMAN		SANJEEV KUMAR SHARMA	DESIGN AND DEVELOPMENT OF INTELLIGENT WEB MINING SYSTEM FOR EXTRACTION OF INFORMATION FROM WEB-DATABASED.
3	PROF. MAYA INGLE	-	SHILPA BHALERAO	INVESTIGATION OF AGILE SOFTWARE DEVELOPMENT PROCESS
4	PROF. MAYA INGLE	-	UGRASEN SUMAN	REUSE AND REENGINEERING PRACTICES IN DESIGNING QUALITY SOFTWARE PRODUCTS
5	PROF. MAYA	-	KSHAMA	INVESTIGATING THE

	INGLE		PAITHANKAR	IMPACT OF USABILITY ISSUES IN SOFTWARE DEVELOPMENT ENVIRONMENT
6	PROF. MAYA INGLE	DR. M. CHANDWANI	VISHAL CHAURASIYA	HINDI SPEECH DATA ANALYSIS AND DEVELOPMENT OF AUTOMATIC SPEECH RECOGNITION SYSTEM
7	PROF. MAYA INGLE	DR. M. CHANDWANI	NIDHI VYAS	INVESTIGATIONS ON PERFORMANCE ENHANCEMENT OF WEB MINING
8	PROF. MAYA INGLE	-	WATTANA, CHEOSUAN	INVESTIGATION ON THE DEVELOPMENT OF LEARNING MANAGEMENT SYSTEM UNDER SCORM STANDARD
9	PROF. MAYA INGLE	-	DEEPAK ABHYANKAR	INVESTIGATION OF COMPUTATIONAL ISSUES IN SORTING AND SEARCHING ALGORITHMS
10	PROF. MAYA INGLE	-	SHILPA SHARMA	INVESTIGATIONS IN ONTOLOGY BASED SOFTWARE ENGINEERING
11	PROF. PRIYESH KANUNGO		HEMANT KUMAR MEHTA	PERFORMANCE ENHANCEMENT OF SCHEDULING ALGORITHMS IN CLUSTERS AND GRIDS USING IMPROVED DYNAMIC LOAD BALANCING TECHNIQUES
12	LATE PROF. A.K. RAMANI		MAHESH DESHPANDE	DISTRIBUTED ALGORITHMIC DESIGN AND IMPLEMENTATION FOR ENABLING AUTONOMIC COMPUTING OVER AD HOC SENSOR NETWORKS
13	LATE PROF. A.K. RAMANI		ASHISH SHAH	FRAME WORK FOR VERIFICATION OF PROCESSOR ARCHITECTURE
14	LATE PROF. A.K. RAMANI		D.S. BHILARE	INFORMATION SECURITY ISSUES IN INSTITUTES OF

				HIGHER EDUCATION
15	LATE PROF. A.K. RAMANI		HEMANT KUMAR SHARMA	OPEN HUMAN MACHINE INTERFACE FRAMWORK FOR INVEHICLE INFOTAINMENT PLATFORMS : A MODEL DRIVEN ARCHITECTURE APPROACH
16	LATE PROF. A.K. RAMANI	PROF. HAJELA	SIDDARTH SINGH	INVESTIGATION OF PROTEINE STRUCTURE
17	PROF. N.S. CHOUDHARY		SURESH JAIN	COMPUTATIONAL LEARNING, WITH FOCUS ON REGULAR LANGUAGE LEARINING
18	PROF. N.S. CHOUDHARY		GEND LAL PRAJAPATI	COMPUTATIONAL LEARNING, WITH FOCUS ON CONTEXT FREE GRAMMER LEARINING
19	DR. SANJAY TANWANI		D.S. BHILARE	INFORMATION SECURITY ISSUES IN INSTITUTES OF HIGHER EDUCATION
20	DR. RAJ KAMAL	-	MR. R. P. MAHAJAN,	"A STUDY IN SOLUTION OF FINANCIAL ENGINEERING PROBLEMS USING QUANTUM COMPUTING AND AI TECHNIQUES, " (RESEARCH CENTRE: SCHOOL OF COMPUTER SCIENCE AND IT)
21	DR. RAJ KAMAL	DR. H. S. SAINI AND DR. G.K. GUPTA	MS. SAVITA KOLHE	"STANDARDIZATION OF INTELLIGENT INFORMATION SYSTEMS FOR DISEASES DIAGNOSIS IN CROPS"
22	DR. SANJIV TOKEKAR	DR. RAJ KAMAL	MR.CHANDRAKANT KHAIRNAR	"CODE AND ENERGY EFFICIENCY FOR SOFTWARE DEFINED RADIOS FOR MOBILE APPLICATIONS"
23	LATE PROF. A.K. RAMANI	-	MR. KAMAL SHARMA	

5.3 Student Participation and Activities

5.3.1 A. List the range of sports, cultural and extracurricular activities available to students: The department conducts an annual function, where sports, cultural and extra curricular activities are held. Also, the activities are conducted at university level. The facilities available in department: table tennis, Badminton, Cricket & Chess. University Level facility includes Lawn tennis, Atheletic ground, basket ball & gymnasium.

B. Sports and extracurricular calendar and details of students' participation.

Department organizes sports and cultural activities once in a year. Also University announces calendar for these activities where our students participate actively.

5.3.2 Details of the achievements of department students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years. : Y

5.3.3 A. Gathered data and feedback from pass-out graduates X

B. Gathered data and feedback from employers X

C. Use of the data for the growth and development of the department X

5.3.4 Department special drives / campaigns for its faculty and students to promote heritage consciousness

5.3.5 A. Records of Department involvement and encourage its students to publish materials like catalogues, wall magazines, departmental magazine, and other material

Mention effort of Mr. Alok Tiwari for department magazine. However, we send the information of department for publication in university magazine by school of journalism.

B. List the major publications/ materials brought out by the students during the last four academic sessions.

5.3.6 A. Departmental Student and Alumni association or any other similar body

Dr. M Ingle to contribute for this.

B. Details on its constitution, activities and funding.

5.3.7 Details of student representatives in Board of Studies, various academic and administrative bodies

5.3.8 Any other information regarding Student Support and Progression which the university would like to include.

Bharat ratna Dr A P J Abul Kalam lecture on Youth: Prospects and Challenges
Mahamana Madan Mohan Malviya Lecture Series:
Swami Vivekanand Lecture Series

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and the mission of the department in line with the University

VISION

“To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and create manpower of global standards with capabilities of accepting new challenges.”

6.1.2 Mission statement definition for the department’s distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution’s tradition and value orientations, its vision for the future.

MISSION

- *To produce world-class professionals who have excellent analytical skills, communication skills, team building spirit and ability to work in cross cultural environment.*
- *To produce international quality IT professionals, who can independently design, develop and implement computer applications.*
- *Professionals who dedicate themselves to mankind, who are environment conscious, follow social norms and ethics.*

6.1.3 Write-up of

- * ensuring the organization’s management system development, implementation and continuous improvement
- * interacting with its stakeholders
- * Reinforcing a culture of excellence
- * identifying organizational needs and striving to fulfill them

The Management maintains transparency in communicating the intent of the organization to all its employees through clarity in authority and delegation to achieve positive results in improving performance of the institution through the following acts.

- Frequent Meeting of respective committees as per the requirement.
- Equality of opportunity among the staff.

- Creating intellectual and ethical wealth.
- Clarity in roles at each level along with job content and responsibility
- Participative style of management through proper decentralization mechanism
- Making the employees a part in taking operational decisions
- Directing the staff and students by creating a new paradigm of participatory and co-operative education for academic excellence.
- Preparation of Department Manuals to the staff and students for clarity on educational content along with rules and regulations in the governance of the department.
- Sound mechanism of reward system, harmonious relations and resolving conflicts at all levels.

6.1.4 Records of Departmental and other committees meetings File No. 25

Frequent faculty meetings at school level. For effective implementation of policies and plans, the school emphasizes on the reviews made by various committees constituted by involving Faculty are given below:

- Academic Planning Committee
- Placement Cell
- Internal Quality Assurance Cell (IQAC)
- Industry Institute Relationship Cell
- Library and Laboratory Infrastructure Committee
- Exam and result Committee
- Disciplinary Committee
- Grievance Redressal
- Alumni Association
- Anti- Ragging

6.1.6 Write-up of a culture of participative decisions in the department

- Majority decisions are taken by departmental committee
- To coordinate with many events at institute level we form different designations like Chair, Co-chair, Conveners etc.
- Faculty and Students also participate in the management of Institute by giving suggestion about purchasing of equipment in laboratory, books and other study material in Library, timings of Institute and library , sports and research .

6.1.7 Record of Grooming leadership at various levels

Function of Class Coordinators and working committee are strategic to groom leadership at various levels.

6.1.10 Record of knowledge management strategy

- Educational CDs
- Video Lectures
- Educational Material downloaded on servers and used institute wide.
- All office documents scanned and uploaded on servers.

6.1.11 Write up on

- * Contributing to national development
- * Fostering global competencies among students
- * Inculcating a sound value system among students
- * Promoting use of technology
- * Quest for excellence

6.2 Strategy Development and Deployment

6.2.1 Perspective plan for development and write-up of policies and strategies to

- * work for Vision and for achieving the mission
- * Enhancing Teaching and learning
- * Enhancing Research and development
- * Enhancing Community engagement
- * Enhancing Human resource planning and development
- * Enhancing Industry interaction
- * Enhancing Internationalisation

6.2.2 Departmental organizational structure and decision making processes and their effectiveness.

Student services are provided by the Head’s Office, Academic Planning Office, Advising Office, the Placement Office, Student Co-curricular Office, the Industry Interface Office, Result & Examination Office, Assessment & Research Office, Laboratory & Infrastructure Office, Library Development Office and the Student Clubs / Alumni Association Office. It is our intention to provide our students with a sense of community within the school.

a. The Office of head of Department

The Head's Office is located in the administration block of the building. The telephone number is 0731- 2438506, 2461548(O). E-mail id is sanjay_tanwani@hotmail.com

Name	Title
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Dr. S. Tanwani	Head, School of Computer Science & IT
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The Head has overall responsibility for administering the school, including ensuring the quality of the academic programmes and facilities, and providing quality advising to the students.

a. The Academic Planning Office

The Academic Planning Committee is responsible for Teaching-learning planning, designing of course scheme, curriculum structure, detailed syllabus, student kit, Appointment of part time teachers, academic calendar, Time table preparation, Subject allotment, Monitoring of teaching-learning, reviewing the academic requirements of the expected graduating students.

The following is a list of name, emails and phone numbers of the Academic Planning Office staff:

Name	Email	Phone
Dr. Sanjay Tanwani (Chairperson)	sanjay_tanwani@hotmail.com	98266 23640
Ms. Preeti Saxena	psaxena.scs@dauniv.ac.in	98270 71501
Ms. Shraddha Masih	sdandel.scs@dauniv.ac.in	98931 07558
Ms. Shweta Agrawal	ashweta.scs@dauniv.ac.in	93003 92334
Ms. Pritika Bahad		

b. Student Placement Office

The Student Co-curricular & Placement Office provides information and assistance to students concerning career planning, resume development and interview preparation and reviewing students' CVs. The office is responsible for organizing campus placement opportunity for students. Also, the office is responsible for organizing student co-curricular activities, collecting exit surveys, and maintaining the alumni website. Staff is available to discuss various career opportunities and post-graduation plans. The Student Co-curricular & Placement Office is located in the administration block of the building.

The following is a list of name, emails and phone numbers of the Student Co-curricular & Placement staff:

Name	Email	Phone
Mr. Nitin Uikey (Chairperson)	nuikey.scs@dauniv.ac.in, nitin_uikey@yahoo.com	94066 82805
Mr. Ajay Tiwari	atiwari.scs@dauniv.ac.in	94066 23754

Mr. Chetan Awasthi	chetan_awasthi1@yahoo.com	94245 00302
Mr. K L Suryavanshi		

c. Student Co-curricular Office:

Ms. Chaitali Chichghare (Chairperson)	chaitneel@yahoo.com	94066 82805
Ms. Shraddha Masih	shraddhadandel@yahoo.com	9893107558
Ms. Tarjani Sevak		
Mr. Pankaj Jagtap		
Ms. Deepika Rai		

d. Industry & Society Interface and Planning Office

The Industry & Society Interface and Planning Office is responsible for programme for society, support to financially poor students, women education, running courses like CCNA, OCP, IBM certification etc.

The following is a list of name, emails and phone numbers of the Industry & Society Interface and Planning staff:

Name	Email	Phone
Mr. Hemant Mehta (Chairperson)	hmehta.scs@dauniv.ac.in	94250 77901
Ms. Preeti Saxena	psaxena.scs@dauniv.ac.in	98270 71501
Mr. Deepak Abhyankar	deepak.abhyankar@yahoo.co.in	98274 38976
Mr. Praveen Shrivastav		

e. Result & Examination Office

The Result & Examination Office is responsible for Exam & internal test Scheduling and Holding, conducting comprehensive viva, lab viva and project viva, result verification, result declaration, maintaining exam related documents and online result management, managing students who opt for internship.

The following is a list of name, emails and phone numbers of the Result & Examination Office staff:

Name	Email	Phone
Dr. Ugrasen Suman (Chairperson)	ugrasen123@yahoo.com	9826953187

Ms. Archana Chaudhary	achaudhari.scs@dauniv.ac.in	93004 04643
Mr. Hitesh Ninama	hiteshmart2002@yhao.co.in	9826841525
Mr. Chetan Awasthi	chetan_awasthi1@yahoo.com	94245 00302
Mr. Mohit Varma	mohitansh12@gmail.com	9039634116
Ms. Sunita Gaur	sunita9300@gmail.com	8251999099

f. Assessment & Research Office

The Assessment & Research Office is responsible for Feedback mechanism implementation, Assessment methods implementation, CQI process, organizing Seminars/ Conferences

The following is a list of name, emails and phone numbers of the Assessment & Research Office staff:

Name	Email	Phone
Dr. (Mrs.) Maya Ingle (Chairperson)	maya_ingle@rediffmail.com	98932 78823
Mr. Ugrasen Suman (Co-Chairperson)	ugrasen123@yahoo.com	98269 53187
Mr. Deepak Abhyankar	Deepak.abhyankar@yahoo.co.in	98274 38976
Mr. Hemant Mehta	hmehta.scs@dauniv.ac.in	94250 77901
Mr. Shantilal Dawar		

g. Laboratory & Infrastructure Development Office

The Laboratory & Infrastructure Development Office is responsible for purchase and maintenance of new hardware and software, lab maintenance, lab experiment and journal, document preparation, classroom system and projector maintenance, purchase and maintenance of other resources required in department. Management of course material/ lectures on intranet.

The following is a list of name, emails and phone numbers of the Laboratory & Infrastructure Development staff:

Name	Email	Phone
Dr. P. Kanungo (Chairperson)	priyeshkanungo@hotmail.com	98275 28857
Mr. Alok Tiwari	aloktiwari@gmail.com	98932 74235
Ms. Chaitali Uikey	chaitneel@yahoo.com	94066 82805
Mr. Hitesh Ninama		
Ms. Shweta Agrawal	ashweta.scs@dauniv.ac.in	93003 92334
Mr. K. L. Suryavanshi	ksuryawanshi.soex@gmail.com	9981018117

h. Library Development Office

The Library Development Office is responsible for Library Automation, Book Purchase and maintenance, Journal/ Magazine / Paper purchase and maintenance, project report maintenance, Library Infrastructure Development,

The following is a list of name, emails and phone numbers of the Library Development staff:

Name	Email	Phone
Mr. Ajay Tiwari (Chairperson)	atiwari.scs@dauniv.ac.in	94066 23754
Ms. Pritika Bahad	bahad.pritika@gmail.com	9981344415
Mr. Pankaj Jagtap	jagtap03@gmail.com	9630460498

i. Students Clubs

There are four clubs identified in the school : Programming Club, Sports Club, Cultural Club and Academic Activity Club for organizing many activities such as tutorials, programming contests, graduation ceremonies, faculty and staff gathering, seminars, and many others. For more information about the clubs click on the link : <http://www.scs.dauniv.ac.in/>

j. Discipline, Grievances and Complaints

The following committee will look after the student's grievances and complaints. The final decisions against the in disciplinary action of students shall be taken by this committee.

Name	Email	Phone
Dr. Maya Ingle (Chairperson)	maya_ingle@rediffmail.com	98932 78823
Dr. Priyesh Kanungo	priyeshkanungo@hotmail.com	98275 28857
Dr. Sanjay Tanwani	sanjay_tanwani@hotmail.com	98266 23640

All the faculties of the school are the member of this committee.

6.2.3 Write up of functioning independently and autonomously and ensure accountability

The department heads have full academic autonomy through ordinance 31. The syllabus and course design can be done within the department keeping in mind, the emerging research and industry trends.

The faculty members are regularly sent for advanced training

New subjects like Cloud Computing, Embedded Systems, Mobile Computing

and Advanced Database introduced in the recent past.

The decision regarding book and equipment purchase is done at department level keeping university/ government rules in mind.

The head can take the decision of buying books/ equipments upto Rs. 25,000. Above Rs. 25,000/-, Hon'ble Vice Chancellor's sanction is needed.

- 6.2.5 Record of last four years, have there been any instances of court cases filed by and against the department, What were the critical issues and verdicts of the courts on these issues

NO

- 6.2.6 Performance audit of the department by external experts:

Academic audit

6.3 Faculty Empowerment Strategies

- 6.3.1 Outcome of the reviews of self appraisal and PBAS and important decisions taken on that

By establishment department

- 6.3.3 List of teachers availing welfare schemes available for teaching and non-teaching staff.

- 6.3.4 List and number of attracted and retained eminent faculty in last 4 years

NIL

- 6.3.5 Gender audit during the last four years of the department achievements and pass percentages and its salient findings.

2011

S.NO	CLASS	PASS		FAIL	
		MALE	FEMALE	MALE	FEMALE
1	BCA III	35	34	9	2
2	MCA III	40	14	1	
3	MSc(CS) II	9	42		
4	MSc(IT) II	6	20	1	
5	MBA (CM) II	4	8		
6	MTECH (CS) II	10	7		

7	MTECH (NM) II	9	4		
8	MTECH (SE) II	12	6		
9	MTECH (BI) II	6	3		

2012

S.NO	CLASS	PASS		FAIL	
		MALE	FEMALE	MALE	FEMALE
1	BCA III	36	37	5	1
2	MCA III	33	18		
3	MSc(CS) II	21	35		
4	MSc(IT) II	13	15		
5	MBA (CM) II	2	4	2	1
6	MTECH (CS) II	7	6		
7	MTECH (NM) II	8	1		
8	MTECH (SE) II	3	2		
9	MTECH (BI) II	4	2		

2013

S.NO	CLASS	PASS		FAIL	
		MALE	FEMALE	MALE	FEMALE
1	BCA III	36	53	6	1
2	MCA III				
3	MSc(CS/IT) II	9	50	3	
4	MTECH (CS) II	9	5		
5	MTECH (NM) II	8	3		
6	MTECH (SE) II	9	2		

Salient Findings

About 50% students taking admission in SCSIT are girls. The girls outperform the male students in studies. Their pass percentage is better. The female students often get equal placement opportunities.

6.4 Financial Management and Resource Mobilization

6.4.1 Statements of audited income and expenditure of academic and administrative activities of the last four years.

BUDGET-2008-2012

S. No.	Year	Income	Expenditure		
			Salary	Other	Total
1.	2008-09	2,12,84,293/-	20,93,419/-	30,75,280/-	51,68,699/-
2.	2009-10	2,06,28,837/-	36,32,559/-	40,31,833/-	76,64,392/-
3.	2010-11	1,23,58,299/-	39,92,460/-	34,19,081/-	74,11,541/-
4.	2011-12	2,54,99,774/-	53,11,501/-	22,62,092/-	75,73,593/-
5.	2012-13	1,81,71,900/-	65,16,652/-	17,59,614/-	82,76,266/-

6.4.5 Efforts taken by the department for resource mobilization.

6.4.6 Record of endowment funds created

Endowment funds are maintained as centralized account of the university

6.5 Internal Quality Assurance System

6.5.1 Details of department internal quality assurance and sustenance system, give details.

The department has internal IQAC committee. The department IQAC committee ensures that 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 informally 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. Engineering 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 12, 2013
 - b. Padamshri Dr M.S. Sodha, DSc, FNA Challenges in Higher Education on June 17, 2013
 - c. Mahamana Madan Mohan Malviya Lecture Series: Speaker
Dr V K Singh, Ex-Vice Chancellor, APS University , REWA

6.5.2 Internal workshops to improve teaching, learning and evaluation
Assessment workshop is conducted every semester. The details are mentioned in criteria II

6.5.3 Record of continuously review the teaching learning process

- Assessment workshop held every six months to analyse feedback of faculty members and give them suggestions for improvement in next semester.
- Regular purchase of new titles and new editions in the library.
- The quality of Question papers and test papers regularly monitored by the senior faculty members.
- Weekly reports of class coordinators

6.5.4 **Any other information regarding Governance, Leadership and Management which the university would like to include.**

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Department Area Green Audit details

Building Plinth Area= 10,000 sq.m.

Inner Garden Area= _____ sq.m.

Front garden Area= 20,500_sq.m.

7.1.2 Departmental initiative to make the campus eco-friendly?

- * Energy conservation
- * Use of renewable energy
- * Water harvesting
- * Check dam construction
- * Efforts for Carbon neutrality
- * Plantation

1000 plants are planted in the premises. Centre Plaza and backside lawn is also full of plants. It makes department environment friendly for the students, staff and faculty.

- * Hazardous waste management
- * e-waste management
- * any other (please specify)

Polythene Free Campus: It is not allowed to use polythenes withing the premises.

University has initiated Green Plicy document released by Bharat ratna Dr A P J Abdul kalam on June 12, 2013.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the department.

- o ICT enabled classrooms
- o WiFi Connectivity in campus
- o The following tasks are performed online with support of MP Online(A joint venture between M.P. Government and TCS)
 - Online submission of application form for entrance examination
 - Registration of Students
 - Enrolment Number Generation
 - Fee Collection

- Exam Form Submission
- Roll No. Generation and Admit Card Printing
- Updation of results on Portal

The students have to pay nominal charges. But, can do the above tasks without coming to the department or go to the bank for preparing draft.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the department.

- ICT enabled classrooms.
- Online form submission through MP Online portal.

Format for Record of Best Practices of the department

1. Title of the Practice

This title should capture the keywords that describe the practice.

2. Objectives of the Practice

What are the objectives / intended outcomes of this “best practice” and what are the underlying principles or concepts of this practice (in about 100 words)?

3. The Context

What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words)?

4. The Practice

Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)?

5. Evidence of Success

Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in about 200 words.

6. Problems Encountered and Resources Required

Please identify the problems encountered and resources required to implement the practice (in about 150 words).

7. Notes

Optional. Please add any other information that may be relevant for adopting/ implementing the Best Practice in other institutions (in about 150 words).