School of Computer Science & Information Technology (SCSIT)

The Annual Quality Assurance Report (AQAR) of the IQAC
School of Computer Science & Information Technology (SCSIT) : Academic Year 2013-14

Part – A

1. Details of the Institution

1.1 Name of the Institution

School of Computer Science and IT

SCSIT, Devi Ahilya University

1.2 Address Line 1

Address Line 2	Khandwa Road
City/Town	Indore
State	MP
Pin Code	452001
Institution e-mail address	sanjay_tanwani@hotmail.com
Contact Nos.	91-731-2438518, 2438530 (O)
Name of the Head of the Institution:	Dr. Sanjay Tanwani
Tel. No. with STD Code:	91-731-2438518 (O)
Mobile:	+919826623640
Name of the IQAC Co-ordinator:	Dr. Preeti Saxena
Mobile:	+919827071501
IQAC e-mail address:	iqacscs@gmail.com

1.3 **NAAC Track ID** (For ex. MHCOGN 18879) **EC/66/RAR/146 dated 21-02-2014**

1.4 Website address:

www.dauniv.ac.in

Web-link of the AQAR:

http://www.iqac.dauniv.ac.in/UTDReports.php

For ex. http://www.ladykeanecollege.edu.in/AQAR201213.doc

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	"B"	Four Star	2000	"Five Years"
2	2nd Cycle	"B"	2.57	2008	"Five Years"
3	3rd Cycle	"A"	3.09	2014	"Five Years"
4	4th Cycle	NA	NA	NA	NA

1.6 Date of Establishment of IQAC : DD/MM/YYYY

21/11/2008

1.7 **AQAR for the year** (*for example 2010-11*)

2013-14

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011*)

   i. AQAR _____ _____ (DD/MM/YYYY)4
  ii. AQAR_____ _____ (DD/MM/YYYY)
 iii. AQAR_____ _____ (DD/MM/YYYY)
 iv. AQAR_____ _____ (DD/MM/YYYY)

1.9 Institutional Status

University   State [√] Central [ ] Deemed [ ] Private [ ]

Affiliated College   Yes [ ]   No [√]

Constituent College   Yes [ ]   No [√]

[√]

Autonomous college of UGC   Yes   No ☐

Regulatory Agency approved Institution   Yes ☑   No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education ☑   Men ☐   Women ☐

Urban ☑   Rural ☐   Tribal ☐

Financial Status   Grant-in-aid ☐   UGC 2(f) ☐   UGC 12B ☐

Grant-in-aid + Self Financing ☐   Totally Self-financ ☐

1.10 Type of Faculty/Programme

Arts ☐   Science ☐   Commerce ☐   Law ☐   PEI (Phys Edu) ☐

TEI (Edu) ☐   Engineering ☐   Health Science ☐   Management ☐

Others   (Specify) | .   Engineering Science |

1.11 Name of the Affiliating University *(for the Colleges)* | ----- |

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University | State |

University with Potential for Excellence   ☐   UGC-CPE   ☐

DST Star Scheme   ☐   UGC-CE   ☐

UGC-Special Assistance Programme ☐   DST-FIST ☑ √

UGC-Innovative PG programmes ☐   Any other (*Specify*) ☐

UGC-COP Programmes ☐

2. IQAC Composition and Activities

2.1 No. of Teachers `28`

2.2 No. of Administrative/Technical staff `21`

2.3 No. of students `673`

2.4 No. of Management representatives `3`

2.5 No. of Alumni `3`

2. 6 No. of any other stakeholder and
      community representatives `Nil`

2.7 No. of Employers/ Industrialists `Nil`

2.8 No. of other External Experts `Nil`

2.9 Total No. of members `10`

2.10 No. of IQAC meetings held `12`

2.11 No. of meetings with various stakeholders: No. `10`   Faculty `8`

Non-Teaching Staff `1`   Students `1`   Alumni `Nil`   Others

2.12 Has IQAC received any funding from UGC during the year? Yes ☐   No ☑ √

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 1 | International | | National | | State | | Institution Level | Y |

(ii) Themes | Assessment Workshop semester wise for feedback analysis of faculty and self appraisal |

2.14 Significant Activities and contributions made by IQAC

| Drastic improvement in overall quality of teaching and learning |

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
Follow the IQAC guideline rigorously	32 research papers and two books published
Details are in annexure ii	Details are in annexure i

Attach the Academic Calendar of the year as Annexure.

2.16 Whether the AQAR was placed in statutory body   Yes | √ | No | |

Management | √ | Syndicate | | Any other body | |

Provide the details of the action taken

| As per university directives from time to time |

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	1	Nil		1
PG	8	Nil	6	8
UG	1	Nil	1	1
PG Diploma	Nil	Nil		
Advanced Diploma	Nil	Nil		
Diploma	Nil	Nil		
Certificate	Nil	Nil		
Others	Nil	Nil		
Total	9		7	9

Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil	Nil	Nil	Nil

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options: **CBCS**
    (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	8
Trimester	Nil
Annual	Nil

1.3 Feedback from stakeholders* Alumni [Y]   Parents [Y]   Employer [Y]   Students [Y]
    (On all aspects)

    Mode of feedback   : Online [ ]   Manual [Y]   Co-operating schools (for [ ]
PEI)

*Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Every year committee of senior Professors guide the revision process.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent

Total	Asst. Professors	Associate Professors	Professors	Others
18	9	3	6	

faculty

2.2 No. of permanent faculty with Ph.D.

9

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
					1				

2.4 No. of Guest and Visiting faculty and Temporary faculty

11   11   22

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	11		
Presented	09		
Resource Persons	7		

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Library equipped with best text /reference books
- Lab assignments done by teachers themselves at the beginning of the session
- ICT enabled classrooms.
- Online form submission through MP Online portal.
- WiFi Connectivity in campus

- Massive Plantation

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

2.7 Total No. of actual teaching days during this academic year

200

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Open Book Exam

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

| 4 | 4 | 4 |

2.10 Average percentage of attendance of students

75%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BCA	51	21	47	20	12	100
BCA (Hons.)	5	60	0	20	20	100
MCA	54	38	46	13	0	97
MCA (Int.)	39	35	65	0	0	100
M.Tech.	47	95	5	0	0	100
M.Sc. CS/IT	58	29	48	23	0	100
MBA (CM)	23	26	70	4	0	100

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	4
UGC – Faculty Improvement Programme	
HRD programmes	
Orientation programmes	
Faculty exchange programme	
Staff training conducted by the university	
Staff training conducted by other institutions	
Summer / Winter schools, Workshops, etc.	5
Others	

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	08			13
Technical Staff				

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- The department got second phase of SAP in July 2014 with grant of 67.5 lacs
- Modern IT infrastructure is planned with state of art softwares like weka MySQL, Scilab and various open source softwares

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil			
Outlay in Rs. Lakhs				

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil			
Outlay in Rs. Lakhs				

3.4   Details on research publications

	International	National	Others
Peer Review Journals	10		
Non-Peer Review Journals	6		
e-Journals	10		
Conference proceedings	06		

3.5 Details on Impact factor of publications:

Range [1-3]   Average [ ]   h-index [ ]   Nos. in SCOPUS [ ]

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects		SAP	67.5 Lacs	
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects *(other than compulsory by the University)*				
Any other(Specify)				
Total				

3.7 No. of books published   i) With ISBN No. | 2 | Chapters in Edited Books | |

ii) Without ISBN No. | | | |

3.8 No. of University Departments receiving funds from 2008

UGC-SAP | √ | CAS | | DST-FIST | √ |

DPE | | DBT Scheme/funds | √ |

3.9 For colleges   Autonomy | | CPE | | DBT Star Scheme | |

INSPIRE | | CE | | Any Other (specify) | |

3.10 Revenue generated through consultancy | |

Level	International	National	State	University	College
Number	Nil				

Sponsoring agencies	Nil				

3.11 No. of conferences

   organized by the   Institution

3.12 No. of faculty served as experts, chairpersons or resource persons | 9 |

3.13 No. of collaborations   International | | National | 03 | Any other | |

3.14 No. of linkages created during this year | |

3.15 Total budget for research for current year in lakhs :

   From Funding agency | | From Management of University/College | 5.0 Lacs |

   Total | 5.0 Lacs |

3.16 No. of patents received this

   year

Type of Patent		Number
National	Applied	1
	Granted	1
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions   received by faculty and research fellows
      Of the institute in the year

Total	International	National	State	University	Dist	College
Nil						

3.18 No. of faculty from the Institution | 7 |
      who are Ph. D. Guides
      and students registered under them | 44 |

3.19 No. of Ph.D. awarded by faculty from the Institution | 7 |

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF [ ]   SRF [ ]   Project Fellows [2] Sanctioned   Any othe[ ]

3.21 No. of students Participated in NSS events:

University level [100]   State level [ ]

International level [ ]   National level [ ]

3.22 No. of students participated in NCC events: Started in July 2014

University level [ ]   State level [ ]

International level [ ]   National level [ ]

3.23 No. of Awards won in NSS: *

University level [ ]   State level [ ]

International level [ ]   National level [ ]

3.24 No. of Awards won in NCC: *

University level [ ]   State level [ ]

International level [ ]   National level [ ]

*Started in July 2014

3.25 No. of Extension activities organized

University forum [ ]   College forum [ ]

NCC [ ]   NSS [1]   Any other [1]

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Numerous visiting speakers delivered expert lectures on areas of ICT

- Special events like Ganesh Utsav and Navratri Utsav have been organized

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	7860(Sq Mt)			
Class rooms	6			
Laboratories	10			
Seminar Halls	01			
No. of important equipments purchased (≥ 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others				

4.2 Computerization of administration and library

- Our department library is fully computerized.
- 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.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	15603					
Reference Books	450					
e-Books						
Journals						
e-Journals	5000					
Digital Database						
CD & Video						
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart -ments	Others
Existing	241	8	Y	1	1	1		
Added								
Total	241	8	Y	1	1	1		

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- All desktops given to faculty and students are internet ready through 1 GBPS bandwidth available from IT Centre. Restricted internet access for students through security tools to preserve bandwidth for academic purposes.

4.6 Amount spent on maintenance in lakhs :

  i) ICT   10 .0

  ii) Campus Infrastructure and facilities   10.0

  iii) Equipments   50.0

  iv) Others

              Total :   70

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Students are provided motivation and career counselling by various teachers and placement officer. Expert lectures are organized to enhance the teaching learning process.

5.2 Efforts made by the institution for tracking the progression

- Department organizes PTM (Parent Teacher Meet) and take regular feedback from the parents. Parents are in the Departmental committees such as Anti-ragging etc.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
171	417	51	

(b) No. of students outside the state

29

(c) No. of international students

01

Men

No	%
338	

Women

No	%
331	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
386	65	07	211	-	669	360	63	7	210	1	641

Demand ratio   Dropout %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Extra classes are conducted to support the students for competitive exams like GATE and NET

No. of students beneficiaries

50

5.5 No. of students qualified in these examinations

NET | 2 | SET/SLET | | GATE | | CAT | |

IAS/IPS etc | | State PSC | | UPSC | | Oth | |

5.6 Details of student counselling and career guidance

For each class a class teacher and a mentor is appointed to provide counselling and career guidance. Also, Mr. Nitin Uikey (Placement Officer) provides career guidance.

No. of students benefitted | 300 |

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
10	150	25	

5.8 Details of gender sensitization programmes

- SCSIT held a Gender Sensitization Session with the students. There were a total of 100 students, who participated in the discussion. The Program was well planned and executed. During the course of discussion issues like gender equality and discrimination against women were explained well with the help of hypothetical examples. This was an hour long interactive discussion with the students participating actively in it.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level | 50 | National level | | International level | |

No. of students participated in cultural events

State/ University level | 99 | National level | | International level | |

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level | 1 | National level | | International level | |

Cultural: State/ University level | 7 | National level | | International level | |

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution		
Financial support from government	All M.Tech	8000/Month
	All SC/ST students	
Financial support from other sources		
Number of students who received International/ National recognitions		

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.

5.11   Student organised / initiatives

Fairs   : State/ University level [   ]   National level [   ]   International level [   ]

Exhibition: State/ University level [   ]   National level [   ]   International level [   ]

5.12   No. of social initiatives undertaken by the students [2]

5.13 Major grievances of students (if any) redressed:

_____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

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.*

6.2 Does the Institution has a management Information System

No

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- Grade-Credit System is followed

- IEEE/ACM curricula is followed as a benchmark to update curriculum
- 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.
- We are one of the first in the country to start innovative programmes like M.Tech. Information Architecture & Software Engineering in 2008.
- Only one integrated program is run in SCSIT. BCA + BCA(Hons) + MCA(Integrated)
- The concerned teachers are also given flexibility to update the syllabus and Curriculum revision is done as per industry requirements

- This syllabus is reviewed by subject experts (Review committee) and feedback results.
- Curriculum is mapped with NET and GATE syllabus.
- 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.
- M.Tech. Embedded Systems, Mobile Computing and Spatial Information Technology at School of Electronics are interdisciplinary and are supported by Computer Science Faculty Members.
- Courses on Motivation, Communication Skills, English & Personality Development, Special courses on Android, VB.net, Database & Data mining are organized for students on regular basis.
- List of Core/ Elective options – Electives offered at M.Tech., MSc & MCA courses.

6.3.2 Teaching and Learning

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

- An Orientation program is organized for fresher students every year before commencement of classes.

- Motivation lectures are organized regularly for fresher students.

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

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

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

- 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.
- Faculty members have delivered VIDEO lectures over EDUSAT through Education Media Research Centre, DAVV.
- 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 Wi-Fi for 24x7 learning in campus and hostels.

6.3.3 Examination and Evaluation

- 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.

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

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

6.3.4 Research and Development

- To enhance the research activities in the department, there is a need to develop a separate research committee. Departmental Research Committee is thus formed

- The department is funded by UGC and DST for carrying out the research activities.

- Various national level workshops are organized to promote research activities in the department. Eminent scientists/scholars have participated in these events.

- Library has subscribed to online journals, which includes access to topmost journals in computer science like ACM, IEEE & Elsevier.

- 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

6.3.5 Library, ICT and physical infrastructure / instrumentation

- 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.
- Library 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.
- we use a software that is made by UGCINFCLBNET Name of the software is (SOUL 2.0)
- 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.

- Annual department Library budget is 5 Lakh Rupees.
    - Additional English language lab equipped with microphones and clarity software are provided to students of all classes. Computer Labs: 06, Servers: 05, No. of computers: 241, Internet and wifi facilty: Enabled on all computers, Multimedia Lecture theatres: 02, Multimedia enabled faculty meeting hall: 01, Projectors: 04 working

6.3.6 Human Resource Management

- 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 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

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

6.3.7 Faculty and Staff recruitment

- UGC norms and guidelines are followed in faculty and staff recruitment.

6.3.8 Industry Interaction / Collaboration

- Faculty members are in touch with industry experts and receive useful feedback from the various experts.
- Industry experts from organizations like TCS conduct workshop on subjects such as cloud computing at department .

6.3.9 Admission of Students

- M.Tech- students are admitted through GATE Score > 90 percentile
- M.Sc. (CS/IT)/ BCA/ MBA(CM) – Students admitted through Departmental Entrance Test/ Common Entrance Test (CET)
- MCA- Students admitted through MP VYAPAM
- PhD- Students are admitted through Doctoral Entrance Test (DET) conducted by the University.
- Admissions are strictly on the merit basis of entrance test

6.4 Welfare schemes for

Teaching	4 % deduction in TWF
Non teaching	
Students	

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done [√] Yes [ ] No

12-13 complete

13 – 14 is in progress

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No			

Administrative	No			

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes [√]   No [ ]

For PG Programmes   Yes [√]   No [ ]

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Semester system is followed and the answer sheets were shown to the students after evaluation.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

6.11 Activities and support from the Alumni Association

- Department organizes career counseling, soft skill development, career-path-identification, and orientation programmes to well-being for its students.

6.12 Activities and support from the Parent – Teacher Association

- Department organizes PTM (Parent Teacher Meet) and take regular feedback from the parents. Parents are in the Departmental committees such as Anti-ragging etc.

6.13 Development programmes for support staff

- Provide regular computer training programmes for the staff.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Massive plantation
- Polythene free campus

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on
the functioning of the institution. Give details.

- ICT enabled classrooms.
- Online form submission through MP Online portal.
- WiFi Connectivity in campus

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

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

01	Activities reflecting the goals and objectives of the institution	a. Regular teaching with teaching aids b. Syllabi coverage: 100 % and full promotion of research activities c. Provide concepts to crack various competitive examinations.
02	New academic program initiated (UG and PG)	None during 2013-14
03	Innovations in curricular design and transaction	Student feedback was considered to update the syllabus. Student feed back was taken after every six months, in May and in December.
04	Inter-disciplinary programmers started	• School of Electronics, Computer Science & IT, and IET collaborate in running interdisciplinary courses like: 1. Spatial Information Technology, 2. Mobile Computing 3. Embedded Systems. • 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.
05	Examination reforms implemented	Semester system is followed and the answer sheets were shown to the students after evaluation.
06	Candidates qualified NET/SLET/GATE etc.	GATE: 13 NET: 02
07.	Initiative towards faculty development programme	4 faculty members attended FDPs
08	Total number of seminars/workshops conducted	Total 19 • Mr. Shakeel Ahmed delivered a lecture on "BIG Data" on 19 July 2013.

		- Prof. K. V. Kale(Marathwada University, Aurangabad) delivered a guest lecture on 12 August, 2013. - Mr. Atul Sharma delivered an expert lecture on Android Applications on 12 August, 2013. - Career guidance programme for MBA(CM) was conducted on 13 August, 2013 by Mr. Shivshambhu. - Dr. Sanjay Tanwani visited 3 engineering institutes as an expert member of National Board of Accreditation. - Dr. Sanjay Tanwani delivered an expert lecture on "Information Technology" at Academic Staff College, Banaras Hindu University on 19 August 2013. - Dr. Sanjay Tanwani produced e-learning contents (7 video presentations)at EMRC for B.Sc. Vocational Studies. - Dr. Maya Ingle was a speaker in National Conference on "Innovative Trends in Soft Computing" on 25-26 September 2013 at Oriental University, Indore. - Dr. Maya Ingle was invited as a Visiting Professor at IIIT, Jabalpur for an Elective Modular Form Course Lectures on "Modeling and Simulation" on 30 September. - 2 October. 2013. - Dr. Maya Ingle was a keynote Speaker in National Conference on "Innovative and Emerging Trends in Information Technology" on 27-28 September 2013 at Career College, Bhopal. - Dr. Maya Ingle delivered an expert lecture on "Language Theory- An Overview" on 16 September, 2013 at Prestige Institute of Engineering & Science, Indore. - Dr. Maya Ingle was invited as a Speaker in National Level Symposium on "Recent Trends in the Field of Green Technology" on 22-23 Nov. 2013 at Shri Dadaji Institute of Technology and Science, Khandwa. - Dr. P. Kanungo was Key-Note speaker of BE I year, Invocation Workshop at Patel Group of Institutions, Ralamandal, Indore on 12 August 2013. - Dr. P. Kanungo delivered expert lectures on "Fundamentals of AI" at Academic Staff College,DAVV on 18 July 2013. - A state level workshop on Cloud Computing has been organized on 6 - 7 September 2013. - Organized an invited lecture on "Approximation Algorithms" by an eminent professor Dr. Naveen Garg, (CSE IIT Delhi) on 15 November, 2013. - Organized a winter School on Data Analytics "SODA 2013" on 15-18 November 2013.

		• Organized an expert lecture on "Mobile Computing" by Mr. O.P. Vyas in 2014
09	Research projects a)Newly implemented b)Completed	• UGC-SAP research project for Database & Data Mining.
10.	Patents generated if any	None
11.	New collaborative research program	Research Collaborations • Collaboration with Prof. Hemant Jain, University of Wisconsin, Milwakee on Text Mining & Health Informatics(So far four telephonic meetings on skype and daily mail exchanges in the last semester)
12.	Research grants received from various agencies	1. UGC under Infrastructure development, 10.0 Lacs 2. Department of Science & Technology under FIST, 25.0 lacs 3. UGC under SAP (Database & Data Mining), 50.0 lacs
13.	Citation index of Faculty members and impact factor	Dr. Ugrasen Suman (H Index 12)
14	Honors/Awards to the faculty	• Dr. Rajkamal o 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 o 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

o Invited as a conference chair in 2nd IEEE International Conference on educational and Information Technology, held during 17-19 September, 2010 [ICEIT – 2010], Chongqing, China.

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

- Dr. Priyesh Kanungo

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

o Best paper award of the Academic Year 2013-14: "Dynamic Load Balancing Algorithm for Scalable Heterogeneous Web Server Cluster with Content Awareness," 2nd International Conference on Trendz in Information Sciences & Computing, (TISC) 2010, Satyabhama University, Chennai, India, pp. 143-148 (Print ISBN: 978-1-4244-9007-3, Paper available on IEEE Xplore, Digital Object Identifier: 10.1109/TISC.2010.5714626).

- Ms. Preeti Saxena

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

- Mr. Ajay Tiwari

o Best paper award of the Academic Year 2013-14: "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
o Best paper award of the conference: "On Trust Management and Reliability Issues in Distributed Scheduling Algorithms," International Conference on Advance Computing and Utility and Cloud Computing (ICoAC), 14-16 December, Anna University, Chennai in Association with IEEE Chennai section 2010. (Paper available on in IEEE Xplore).
- Ms. Pritika Bahad
o Received third prize in Six day workshop "Robocamp 2011" held at IIIT, Hyderabad for designing "Low Price Household Smoke detector".

15	Internal resources generated	Self finance Courses started • BCA • MCA (Integrated) • M.Sc. (Information Technology) • MBA(Computer Management)
16	Details of departments getting SAP, FIST, etc assistance/recognition	None
17	Teachers and officers newly recruited	07 on contract
18	Teaching-Non-teaching staff ratio	1:1

19	Improvements in the library services	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. 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.
20	New books/journals subscribed and their Value	The library subscribes to 16 computer related magazines and 5000 e-journals. 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.
21	Courses in which Student Assessment of Teachers is introduced and the action taken on student feedback.	Feedbacks are taken from students on regular basis. Feedbacks are analyzed and suitable measures are taken for further improvement. 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.
24.	Unit Cost of Education. Unit cost = total annual expenditure budget	1,62,66,348/- expenditure / 697 students = 23337.

		(Actual) divided by the number of students enrolled.	
25.	Computerization and Administration and the process of Admissions and examination, result issue of certificates.	Our department library is fully computerized. M.Tech- students are admitted through GATE Score > 90 percentile M.Sc. (CS/IT)/ BCA/ MBA(CM) – Students admitted through Departmental Entrance Test/ Common Entrance Test (CET) MCA- Students admitted through MP VYAPAM PhD- Students are admitted through Doctoral Entrance Test (DET) conducted by the University. Admissions are strictly on the merit basis in the entrance test. 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.	
26.	Increase in the infrastructural facilities.	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.	

		Additional English language lab equipped with microphones and Clarity software are provided to students of all classes.
		Computer Labs: 06
		Servers: 05
		No. of computers: 241
		Internet and wifi facilty: Enabled on all computers
		Multimedia Lecture theatres: 02
		Multimedia enabled faculty meeting hall: 01
		Projectors: 04 working
27.	Technology up gradation.	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.
28	Computer and internet excess and training to teacher and students.	All desktops given to faculty and students are internet ready through 1 GBPS bandwidth available from IT Centre. Restricted internet access for students through security tools to preserve bandwidth for academic purposes. Total number of class rooms: 09 Class rooms with ICT facility: 05

		Students' laboratories: 05
		Research laboratories**:** 03

29.	Financial aid to students.	3. Scholarship and fee reimbursement to ST/SC and OBC through State Government
		4. 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.
		5. One student received scholarship from minority cell and three students receive financial assistance from the community they belong to.
		6. 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

30.	Activities and support from the Alumni Association.	Department organizes career counseling, soft skill development, career-path-identification, and orientation programmes to well-being for its students. • Mr. Atul Sharma delivered an expert lecture on Android Applications on 12 August, 2013. • Career guidance programme for MBA(CM) was conducted on 13 August, 2013 by Mr. Shivshambhu. • A state level workshop on Cloud Computing has been organized on 6 - 7 September 2013. • Organized an invited lecture on "Approximation Algorithms" by an eminent professor Dr. Naveen Garg, (CSE IIT Delhi) on 15 November, 2013. • Organized a winter School on Data Analytics "SODA 2013" on 15-18 November 2013. • Organized an expert lecture on "Mobile Computing" by Mr. O.P. Vyas in 2014

31.	Activities and support from the parent Teacher Association.	Department organizes PTM (Parent Teacher Meet) and take regular feedback from the parents. Parents are in the Departmental committees such as Anti-ragging etc.
32.	Health Services.	Students are provided Health Centre facility by the University.
33.	Performance in sports activities.	Students participated in Inter Departmental Sports activities.
		List the range of sports, cultural and extracurricular activities available to students: The department conducts an annual function, where sports, cultural and extra curriculur 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.
		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.
34.	Incentives to outstanding sports persons.	We have given free hands to students deciding about schedule of class tests and semester examinations as per their convenience.
35.	Students achievements and awards.	Placed in various MNCs and Government Sectors.
36.	Activities of the Guidance and Counseling Units.	Discussion with students and research scholars is held to provide information and to encourage them in various scientific activities during regular student teachers meetings.
		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

37.	Placements services provided to student.	One teacher is placement officer, who provide the counseling regarding placements.
38.	Development programmes for Non- teaching staff.	Provide regular computer training programmes for the staff.
39.	Healthy practices of the institution.	Regular and quality teaching Active participation in research activities Departmental harmony in working ambience. For quality assurance, self analysis and feedback from students was practiced.
40.	Linkages developed with National/ International, Academic/Research bodies.	Collaborations and MOUs exist (as mentioned above).
41.	Any other relevant information the institution wishes to add	Department works for the overall development of the students through regular teaching and discussion with the students.

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

- Active participation in research activities
- For quality assurance, self analysis and feedback from students was practiced.

*Provide the details in annexure (annexure need to be numbered as i, ii,iii)

7.4 Contribution to environmental awareness / protection

- Massive plantation around the campus
- Polythene free campus

7.5 Whether environmental audit was conducted? Yes ☐   No ☑

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

8. **Plans of institution for next year**

- Initiate SAP-Univ alliance
- Initiate collaboration with IBM and Microsoft for ICT related activities
- Acquire 60 new desktops under SAP II & self finance funds
- Create state of art IT infrastructure with latest softwares like Weka, Linux, Scilab and other open source softwares.

Name   Dr. Preeti Saxena   *Name Dr. S. Tanwani*

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Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

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List of Publications

Dr. Sanjay Tanwani

1. Sarika Jain, Sunny Bagga, Ramchand Hablani, Narendra Chaudhari, Sanjay Tanwani, Facial Expression Recognition using Local Binary Patterns with Different Distance Measures, sent for International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2013),will be published in International Journal of Advances in intelligence and soft computing, Springer,2013.
2. Sarika Jain, Sunny Bagga, Ramchand Hablani, Narendra Chaudhari, Sanjay Tanwani, Automatic Facial Expression Recognition Using LBP of Essential Facial Parts and Feed Forward Neural Network, communicated for International Conference on Emerging Trends and Applications in Computer Science – 2013,Shilong, India.

Dr. D.S. Bhilare

[1] Vivek Shrivastava, D.S. Bhilare, "mEDF: Deadline driven Algorithm for Minimizing Response Time and Completion Time in IaaS Clouds ", International Journal of Application or Innovation in Engineering & Management", ISSN 2319 – 4847, Vol.3 Issue 6, June 2014 [Impact Factor 2.379]
[2] Vivek Shrivastava, D.S. Bhilare, "CRI: A Novel Rating Based Leasing Policy and Algorithm for Efficient Resource Management in IaaS Clouds", International Journal of Computer Science and Information Technologies, ISSN 0975-9646, 2014, [Impact Factor 2.93]
[3] Nilotpal Chakraborty, D.S Bhilare "On Securiing Big Data Analytics", International Journal for Scientific Research and Development, Volume 2, Issue 2, April 2014, pp 1000-1002, ISSN:2321-0613. [Impact Factor 1.26]
[4] D.S. Bhilare, Nilotpal Chakraborty, "Enhanced Security in Cloud Computing Environment using Intrusion Detection System", International Journal of Advance Research in Computer Science and Software Engineering, Volume 3, Issue 9, September 2013, pp 503-508, ISSN:2277 128X. [Impact Factor 2.08]

Dr. (Mrs.) Maya Ingle

[1] Smriti Jain and Maya Ingle (2014). Security Metrics and Software Development Progression.
   Vol. 4, Issue 5 (Version 7), International Journal of Engineering Research and Applications
   (IJERA), May 2014, pp. 161-167. Impact Factor: 1.69, IC Value: 5.09, ISO: 3297-2007, ISSN:
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   http://www.ijera.com/papers/Vol4_issue5/Version%207/AB04507161167.pdf.
[2] Tejaswini Apte, Dr. Maya Ingle, Dr. A.K.Goyal Hybrid Storage Architecture: A survey,

International Journal of Computer Science and Information Security, Vol. 11 No. 9, September 2013 pp 97-102.

[3] Tejaswini Apte, Dr. Maya Ingle, Dr. A.K.Goyal, Column-Store Databases: Approaches and

Optimization Techniques, International Journal of Data Mining and Knowledge Management

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Tuple Reconstruction, Second International Conference of Data Mining and Knowledge

Management Process (CDKP 2013, Dubai), Proceedings of Computer Science and

Information Technology, November 2013,pp. 295-303.

[5] Tejaswini Apte, Dr. Maya Ingle, Dr. A.K.Goyal, Column-Store: Decision Tree Classification

for Unseen attribute Set, International Journal of Database Management Systems (IJDMS),

Vol.5, No.6, December 2013, pp.35-39.

Dr. Priyesh Kanungo

[1] Sharma R. K. & Kanungo P., "Dynamic Load Balancing Algorithm for Heterogeneous Multi-core Processors Cluster," 2014 Fourth International Conference on Communication Systems and Network Technologies (CSNT-2014),April 7-9, 2014, Bhopal, India (Proceeding Available on IEEE, Xplore, ISSN 978-1-4799-3069-2), pp. 288-292. Digital Object Identifier:10.1109/CSNT.2014.63.

[2] Kanungo, P. Exploring DLB to Solve Problems in DLB," International Journal of Computer Trends and Technology (IJCTT) – Volume 4 Issue 10–Oct 2013, ISSN: 2231-2803

[3] Kanungo, P. Load Measurement Issues In Dynamic Load Balancing In Distributed Computing Environment," International Journal of Advanced Research in Computer Science and Software Engineering 3 (4), October - 2013, pp. 1-6, Impact Factor 2.080

[4] Kanungo, P. Scheduling Algorithms in Web Servers Clusters," International Journal of Computer Science and Mobile Computing Vol.2 No.12, December- 2013, pg. 1-4, ISSN: 2320-088X

[5] Kanungo, P. Measuring Performance Of Dynamic Load Balancing Algorithms In Distributed Computing Applications,"International Journal of Advanced Research in Computer and Communication Engineerin Vol. 2, Issue 10, October 2013. ISSN (Print) 2319-5940, ISSN (Online)2278-1021. Impact Factor: 1.770

[6] Kanungo, P. "Study Of Server Load Balancing Techniques," IJCSET, Vol 4 Issue 10.

Dr. Ugrasen Suman

[1] Sanjeev Kumar Sharma, U. Suman, "A Trust-based Architectural Framework for Collaborative Filtering Recommender Systems," International Journal of Business Information Systems (IJBIS), Inderscience publications, Switzerland, ISSN: 1746-0972, Vol.16, No.2, pp. 134-153, 2014.

[2] Rajat Bhandari, U. Suman, "A Pattern Based Authentication Mechanism for Securing Business Processes," Proc. of IEEE International Conference on Information Systems and Computer Networks (ISCON-2014), Mathura, India, March 1-2, 2014.

[3] Rajat Bhandari, U. Suman, "Multithreading Based Secure Algorithm for Business Process Security," Proc. of 8th IEEE International Conference INDIACom-2014, New Delhi, India, ISSN 0973-7529, pp.946-950, March 5-7, 2014.

[4] Jitender Choudhari, U. Suman, "Extended Iterative Maintenance Life Cycle using eXtreme Programming," *ACM SIGSOFT Software Engineering Notes (SEN),* ACM Press,Vol. 39 No. 1, pp.1-12, January 2014.

[5] Nitin Nagar, U. Suman, "Architectural Comparison and Implementation of Cloud Tools and Technologies," *International Journal of Future Computer and Communication (IJFCC)*, ISSN: 2010-3751, Vol. 3, No. 3, pp.153-160, June 2014.

[6] Deepali Tripathi, U. Suman, M. Ingle, S. Tanwani,"Towards Introducing and Implementation of SOA Design Antipatterns," *International Journal of Computer Theory and Engineering* (IJCTE), ISSN: 1793-8201, Vol. 6, No. 1, pp.20-25, Feb. 2014.

[7] Sanjeev Kumar Sharma, U. Suman, "An efficient Semantic URL Clustering for Web page Recommendation," *International Journal of Data Analysis Techniques and Strategies (IJDATS)*, Inderscience publications, Switzerland, ISSN: 1755-8050, Vol. 5, No. 4, pp.339-358, 2013.

[8] Rajat Bhandari, U. Suman, "A Secure Framework for Business Process Execution," IEEE International Conference on Computational Intelligence and Communication Networks (CICN 2013), *IEEE Explore,* ISBN 978-0-7685-5069-5, pp. 400-404, Mathura, India, 27-29 Sept 2013.

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[10] Maya Rathore, U. Suman, "An ARSM Approach using PCB-QoS Classification for Web Services: A Multi-Perspective View," Second IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), *IEEE Explore,* pp. 165-171, Mysore, 22-25 Aug, 2013.

Dr. Preeti Saxena

[1] Preeti Saxena and Raj Kamal, *"An Information Dissemination Framework for Location Based Services"*, International Journal of Emerging Trends & Technology in Computer Science, Volume 3, Issue 2, Jan - Feb 2014.

[2] Preeti Saxena and Raj Kamal, "An efficient Information Filtering Middleware for Location Based Services", in 8th Proc. International Conference on Computing for Sustainable Global Development (INDIACom-2014), 5-7, Mar. 2014 .

[3] Preeti Saxena and Raj Kamal, "A new approach to Filtering of XML streaming Data", in 4th Proc. International Conference on Advances in Computer Science (ACS 2013), NCR INDIA, 13-14, Dec. 2013.

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[1]   Dr. Ugrasen Suman, "Software Engineering: Concepts and Practices (ISBN: 9788131519301)",
    Published by Cengage Learning.

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Abbreviations:

CAS   -   Career Advanced Scheme

CAT   -   Common Admission Test

CBCS   -   Choice Based Credit System

CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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