

DETAILED CURRICULUM VITAE

PART A- PERSONAL INFORMATION



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|----|--------------------------------|---|--|
| 1. | Name | : | Smt. SHUBHANGI K. GAWALI |
| 2. | Nationality | : | Indian |
| 3. | Gender | : | Female |
| 4. | Marital Status | : | Married |
| 5. | Date of Birth | : | 20 th July 1980 |
| 6. | Qualification | : | M.Tech. (Computer Engineering) |
| 7. | Residential Address | : | D-58, BITS-PILANI, K.K. BIRLA GOA
CAMPUS, ZUARINAGAR,
PIN-403726, GOA. |
| 8. | Contact Number (Office) | : | 0832-2580269 |
| 9. | Email id | : | shubhangi@goa.bits-pilani.ac.in |

PART B - PROFESSIONAL INFORMATION

1. **Name of the Institute** : BITS-PILANI, K.K. BIRLA GOA CAMPUS
2. **Department** : Computer Science and Information Systems, BITS Pilani-GOA campus.
3. **Designation** : Lecturer
4. **Chamber No.** : A-Ex-2
5. **Teaching Experience** : 10 years
6. **Number of Research Papers in journals/conference:** 02 (National)
7. **Special competence** : Good hand over isql*plus environment in oracle 9i.

8. Professional career up to date in chronological order:

Employment Record			
Organization	From	To	Designation held
S.N.D.T., Mumbai	14 th Jun 2003	31 st July 2003	Lecturer
K.C.C.E., Mumbai	1 st Aug 2003	31 st Dec 2003	Lecturer
D.J.SANGHVI College of Engineering, Mumbai	1 st Jan 2004	30 th Jun 2010	Lecturer
BITS PILANI K.K. BIRLA GOA CAMPUS	2 nd Aug 2010	Till date	Lecturer

9. Broad field of research interest with specific areas of involvement

(a) Publications with titles of articles, names of journals and dates

1. Paper presentation on Main theme "Excellence in Technical Education through Innovation" and under sub-theme "IT in Education" in 37th ISTE National Annual Convention 2007 at Manipal Institute of Technology Manipal during 17 – 19 Nov 2007.
2. Paper presentation on Design of a tool to generate association rule for web usage mining at the National Conference on Information & Communication Technology (NCICT 2006) at D. J. Sanghvi College of Engineering, Mumbai.
3. Paper presentation on Improving Query Performance in Data Warehouse at the National Conference on Information & Communication Technology (NCICT 2007) at D.J. Sanghvi College of Engineering, Mumbai.

(b) List of first degree theses supervised

1. Steganography under the area of data security and communication networks: to hide the important message into an image for security purpose.
2. Summarization under the area of data mining to design a tool for generating the summary of given paragraph for quickly understanding the theme of the paragraph.

(c) Computer Oriented Projects guided:

1. Real Time Multiprocessor scheduling algorithms
2. Implementation & Analysis of Various CPU based Scheduling Policies in a Java Based Simulator

3. Optimization of Congestion Control: TCP/IP and Implementation in Java
4. Development of course management tool (using CAKE PHP)
5. Query Optimization (making two query trees and estimating the cost)
6. Mining sequential patterns using position coded pre-order linked Web Access Pattern Tree
7. Recommended Systems using Collaborative Filtering and Classification Algorithms in Data Mining
8. Implementation of Decision Trees in Data Mining
9. Design implementation of reducing redundancies in a Search Engine
10. Parking: A Solution using Android to the problem of finding parking spots
11. Comparison of DVS Algorithms for Periodic Tasks
12. Experimental study and implementation of EDF Scheduling Comparative study of EDF and RM Scheduling Policy on Multiprocessor Platform
13. Analysis of Dynamic Voltage Scaling/ Dynamic Frequency Scaling Scheduling algorithms for periodic Real time tasks

10. Competence and proficiency in programming languages and computer software development

Programming Languages : C, C++, Oracle 9i Structured Query Language, PL/SQL, Visual basic 6.0.

Computer Software Development : Analysis of the requirements, feasibility study, Software designing and development.

11. Competence and proficiency in operation of sophisticated analytical instruments

Turbo C, Visual Basic 6.0, Oracle 9i, isql*plus, Jcreator, Edit plus, Microsoft Sql Server 2000, Lisp, Prolog.

12. Subjects Taught

1. C Programming
2. Object Oriented Programming in C++
2. Object Oriented Programming in Java
3. Database Management Systems
4. Advanced Databases
5. Real Time Systems
6. Operating Systems

13. Area of Interest

Real Time Systems, Operating Systems, Database Systems.

14. Technical Skill set

SQL, PL/SQL, C, C++ , Java, Visual Basic 6.0

15. Practical Projects Undertook

1. Prepared Automation software for EDP (Electronic Data Processing) Department of Indian Airlines, Santacruz branch. Project developed in VB as Front End and Oracle as Back End. This software has automated entries and details about equipments and communication lines used by Indian Airlines and its agents. It also maintains transactions about products purchased and sold by EDP department through various agents.
2. Project in Web Usage Mining as a part M.Tech curricula. This project is to analyze web server logs and form the association rules for next web page to be visited by the user.

16. Seminars and Papers presented

1. Paper presentation on Main theme "Excellence in Technical Education through Innovation" and under sub-theme "IT in Education" in 37th ISTE National Annual Convention 2007 at Manipal Institute of Technology Manipal during 17 – 19 Nov 2007.
2. Paper presentation on Design of a tool to generate association rule for web usage mining at the National Conference on Information & Communication Technology (NCICT 2006) at D. J. Sanghvi College of Engineering, Mumbai.
3. Paper presentation on Improving Query Performance in Data Warehouse at the National Conference on Information & Communication Technology (NCICT 2007) at D. J. Sanghvi College of Engineering, Mumbai.
4. Seminar presentation on Web Content Mining in first trimester of M.Tech.
5. Seminar presentation on Swarm Intelligence as second trimester of M.Tech curricula.
6. Seminar presentation on Web Usage Mining as third trimester curricula of M.Tech
7. Delivered a Guest lecture on Web Usage Mining to M.Tech First year Students.
8. Participated in Content Analysis Workshop arranged for Bachelor of Computer Applications course of SNDT University.

17. Conferences and Programs Attended

1. Attended the National Conference on Information & Communication Technology (NCICT 2007). The theme was "New Horizons in technology and Applications" at DJSCOE Mumbai from 1st Mar to 3rd Mar 2007 for 3days.
2. Attended National Conference on Information and Communication Technology (NCICT 2006). The theme was "Recent Trends and future Challenges in ICT" at DJSCOE Mumbai from Feb 24th to 26th Feb 2006 for three days.
3. Attended 34th Annual Convention & National Seminar at Netaji Subhas Institute of technology at New Delhi from 18th to 20th Dec 2004 for 3 days.
4. Attended ISTE approved STTP on Advanced Computing Techniques at DJSCOE Mumbai from 07th to 18th January 2008 for two weeks.
5. Attended ISTE approved STTP on Wireless Technologies and Networking at DJSCOE Mumbai from 5th to 16th Dec 2005 for two weeks.
6. Attended ISTE organized Short term training program on "Faculty Development Program" at DJSCOE from 2nd Jan 2006 to 6th Jan 2006 for one week.
7. Attended AAYAM 2007 conference on Next Generation Web designing and Service Level Architecture at IIT Mumbai for 3 days.
8. Attended workshop on VxWorks in Aug 2012 conducted by EEE dept from BITS Pilani Goa Campus.
9. Attended workshop on Android OS on Beagle Board in May 2013 conducted by Pader Concaica College of Engineering, Verna.

18. Current Responsibilities

- Teaching Operating Systems for Third Year First Semester students of Computer Science, Information System and Dual Degree.
- Teaching Operating System for WILP (Work integrated Learning Program) Course.

- Conducting Programming Laboratory for Object Oriented Programming course for Second year first semester students.
- Guiding two students for BITSAA project.
- Guiding four student on Study oriented projects (in the area of Real Time Systems)

19. Other information

- Secured GATE Score 327 in the year 2006.
- Successfully completed Distance Education PG-level Course IT640-Modern Information Systems from IIT Bombay KRESIT from Jan 2004 to May 2004.
- Successfully completed a course on Oracle 9i from NIIT-Mumbai

20. Professional mission in consonance with the goals of the Institute in terms of teaching, course development, research involvement and institutional development

In today's ever evolving and rapidly developing educational scenario of technical education in India and in particular Computer engineering stream, it is very necessary for teaching fraternity to be updated and also to perceive future requirements of students.

I am very keen to pursue my quest of knowledge in research field of computer engineering from Institute of world repute. This not only will keep me abreast with exhaustive knowledge but also useful to provide pragmatic, practical and theoretical requirements of my students.

Many seminars and paper presentations which I made in past has inducted ever increasing passion to perform better and more effectively and at the larger platform. I am very eager to share my knowledge with my students and increase their interests in paper presentations and seminars.

In recent past, I have developed content for my entire practical labs for different subjects and study materials for theory subjects. Also I prepared Online examinations for term exams. I have extended my teaching and assessing the students beyond classroom by teaching the WILP courses. Moodle as a learning management system has greatly helped in discussing queries, doubts and sharing knowledge. I would be very happy to develop this new platform of knowledge sharing.

I wish to do research in my interested area under the guidance of experts in the institute from all campuses and outside institute of equal repute working in same area and contribute my work to the society.

Finally, I feel teaching and learning process is ever evolving, continuous and moves hand in hand. Continues and effective professional up gradation, in which, am keenly interested in, will help me in training bright minds and making them more eager for new ideas, techniques and methods.

Shubhangi