

CURRICULUM VITAE

Dr. P. NARAYANASAMY B.E., M.E., Ph.D.
Professor, Department of Electrical & Electronics Engg,
Dean -Networking & Computing,
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PERSONAL DETAILS

Name : Dr. P. Narayanasamy

Father's Name : Mr. S. Palanisamy

Place of Birth : Mallipatti, Tiruppur (District)

Nationality : Indian

Residential Address : 2A Thendral Apartments
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Date of Birth & Age : 02.01.1957, 60 years

Experience as Professor : 17 years

Total Teaching Experience : 35 years

Date of Joining in Anna University : 30.06.1982

EXECUTIVE SUMMARY

Dr. P. Narayanasamy was born on 02.01.1957 in Mallipatti village in the present Tirupur District of Tamilnadu, India. He obtained his B.E.(EEE) from Coimbatore Institute of Technology, Coimbatore, M.E.(Power Systems) and Ph.D.(Computer Science and Engineering) from Anna University, Chennai in the year 1980, 1982 and 1990 respectively.

He started his career as a Faculty member in the Ramanujan Computing Centre, Anna University, Chennai in the year 1982 and became Professor of Computer Science and Engineering, Anna University, Chennai in the year 2000.

His areas of interest are Computer Networks, Mobile and Wireless Adhoc Networks. He has guided many Under-Graduate and Post-Graduate students for their dissertation work in the above mentioned areas. To his research credit, he has published about 151 research papers and under his guidance 2 M.S. (By Research) and 17 Ph.D. scholars have completed their research work. At present, he is guiding many UG and PG students and 8 Research Scholars for their Ph.D. Programmes.

He has delivered state of art lectures in many educational institutions and professional societies in the areas of Cloud Computing and Wireless Networks. He has conducted many short term courses for the teachers of Engineering colleges sponsored by AICTE. He has visited USA, Singapore, Australia, South Korea, Malaysia and Dubai to study their academic and research activities.

He has executed many sponsored and consultancy projects financially supported by Anna University, Tamilnadu State Council for Science and Technology, Tamil Virtual University, AICTE, UGC and other government and private funding agencies.

During his tenure at Anna University, Chennai, he was responsible for the establishment of Campus wide networking. He has contributed extensively for establishing the Single Window System of Tamilnadu Engineering Admissions and was solely responsible for the smooth and successful conduct of Distributed Single Window Counseling in four different places in Tamilnadu as the Secretary of TNEA, which was well received and appreciated by all the sectors of the people of Tamilnadu.

He has served as a Secretary, TNEA for more than four years, Head of the Department of Computer Science and Engineering for a period of three years, Founder Head of the Department of Information Science and Technology, Director, Centre for Faculty Development, Director in-Charge of Ramanujan Computing Centre, Co-ordinator of MCA in Centre for Distance Education and other responsible positions. In addition, he also served as Director, Academic Courses in Anna University of Technology, Chennai for a

period of one year on Deputation. He was also the Additional Controller of Examinations, University Departments, Anna University, Chennai for two years.

He is a Life Member of Indian Society for Technical Education, Computer Society of India and other Professional Societies. He has also served as the treasurer of the Computer Society of Anna University.

He is a member of academic and administrative bodies in Academic Council and Board of Studies of many educational institutions in India. He has also served as an Examiner for the evaluation of Ph.D thesis of many universities in India.

With a rich academic, research and administrative experience, he has rendered his services to Anna University, Chennai and the Government of Tamilnadu for many important assignments.

Coimbatore Institute of Technology has awarded "**DISTINGUISHED ALUMNI AWARD**" in the year 2014 for his contribution in the field of Engineering and Technology.

He was the Dean, College of Engineering, Anna University, Guindy Campus from 14th May 2014 to may 2017. In addition, he was a member of the Convenor Committee appointed to look after the duties and responsibilities of Vice-chancellor from May 2016 to Jan 2017.

QUALIFICATIONS

S. No.	Degree	University / Institution	Year of Passing	Main Subjects	Division or Equivalent
1	Ph.D	Anna University, College of Engineering, Guindy	1990	Computer Science and Engineering	-
2	M.E.	Anna University, College of Engineering, Guindy	1982	Power Systems Engineering	First Class
3	B.E.	Madras University, Coimbatore Institute of Technology	1980	Electrical and Electronics Engineering	First Class

AWARDS AND DISTINCTIONS

- Distinguished Alumni Award from Coimbatore Institute of Technology in the year 2014 for the contributions in the field of Engineering and Technology

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Indian Society for Technical Education
- Computer Society of India

PAPERS PUBLISHED / PRESENTED

- Total no. of papers published : 151
- Journals : 61
- Conferences : 90

H-INDEX

- All Citations : 218
- All Citations since 2011 : 150
- H-index : 7
- H-index since 2011 : 6

RESEARCH GUIDANCE

- Ph.D. Scholars completed : 20 + 1 (Joint Supervisor)
- Ph.D. Scholars pursuing : 4 + 3 (Joint Supervisor)
- M.S.(By Research) : 2
- M.E. Project Work Guidance : 35

PROFESSIONAL EXPERIENCE : 34 + YEARS

Department/Centre	Designation	From	To	Total
Department of Information Science and Technology, CEG	Professor (AGP Rs.12000)	01.06.2010	30.05.2017	7 years
Department of Computer Science and Engineering, CEG	Professor (AGP Rs.10000)	18.02.2000	31.05.2010	10 yrs 3 months
Ramanujan Computing Centre, CEG	Assistant Professor	14.03.1990	17.02.2000	10 years
Ramanujan Computing Centre, CEG	Lecturer	30.06.1982	13.03.1990	8 years

ADMINISTRATIVE RESPONSIBILITIES HELD

S. No.	Position Held	Centre / Department	PERIOD	
			From	To
1	Member, Convenor Committee (For performing the duties of Vice Chancellor)	Anna University	May 2016	Jan 2017
2	Dean and Warden	College of Engineering, Anna University	May 2014	May 2017
3	Additional Controller of Examinations	University Departments	May 2012	Jun 2014
4	Director	Centre for Faculty Development	Aug 2011	May 2012
5	Director	Centre for Academic Courses, AUTC	Jul 2010	Jul 2011
6	Coordinator	Centre for Distance Education	Mar 2009	Jun 2010
7	Professor and Head	Department of Computer Science and Engineering	Jan 2006	Jan 2009
8	Secretary	Tamil Nadu Engineering Admissions	Apr 2002	Apr 2006
9	Coordinator	AUDEL Programme	Jun 1995	Feb 1997
10	Director in-charge	Ramanujan Computing Centre (RCC)	Feb 1994	Sep 1994

SPONSORED PROJECTS CARRIEDOUT AS PRINCIPAL COORDINATOR

S. No.	Title of the Project	Total Amount Sanctioned	Funding Agency	Project Duration
1	FIST (Fund for Improvement of S&T Infrastructure)	Rs. 33.00 Lakhs	Department of Science and Technology	5 years
2	Value Added Services in Regional Language on Hand Held Devices	Rs. 3.20 Lakhs	Tamil Virtual University	1 year
3	Information Security Education and Awareness	Rs. 100.00 Lakhs	Ministry of Communication and Information Technology	5 years
4	Intelligent Information Retrieval of Thirukkural in Hand Held Devices	Rs. 4.01 Lakhs	Tamil Virtual University	1 year
5	Development and Testing of the Tamil Mobile Key Pad Software	Rs. 0.69 Lakhs	Tamil Virtual University	6 months
6	Committee on Strengthening of Infrastructure for Science and Technology	Rs. 79.00 Lakhs	University Grants Commission	5 years
7	Departmental Research Support (DRS) Phase II	Rs. 36.50 Lakhs	University Grants Commission	5 years
8	Campus Networking of Anna University	Rs. 30.00 Lakhs	AICTE & UGC	1 year
9	Establishing Specialized Computer lab during the Xth Plan	Rs. 20.00 Lakhs	University Grants Commission	1 year

SPONSORED PROJECTS CARRIEDOUT AS CO-INVESTIGATOR

S. No.	Title of the Project	Total Amount Sanctioned	Funding Agency	Project Duration
1	Establishment of M-Learning and Project Incubation Centre	70,000 USD	HP Technologies	16 months
2	Strengthening of Infrastructure for Science and Technology	Rs. 13 Lakhs	University Grants Commission	5 years

SCHOLARS WHO HAVE COMPLETED Ph. D

S. No.	Registration Number	Name of the Scholars	Research Title	Date of Viva-voce Exam
1	93.34.13	Anbarasu. L.A	Parallel genetic algorithms for multiple sequence alignment problem	06.06.2001
2	94.35.09	Jacob. V.C	Studies and analysis of algorithms for identification of structural redundancy in linear programming problems	11.10.2001
3	94.37.17	Jayakumar. S	A heuristic approach for solving open shop scheduling problem minimizing makespan and resource idleness	29.01.2002
4	2002419716	Sumathy. V	Performance enhancement of energy efficient ad-hoc routing protocols	27.02.2007
5	2000399701	Sugumaran. M	A heuristic approach for agent-based distributed meeting scheduling	18.02.2008
6	99.51.26	Sakthivel. P	Optimization of test automation for hierarchical system-on-chip	16.07.2008
7	2003419707	Kousalya. G	Quality of service enhancement in wireless networks	24.10.2008
8	2002419711	Mariyappan. V	Policy based QOS management in 4G networks	07.11.2008
9	2005419110	Komathy. K	Secure data forwarding against selfish nodes in mobile ad-hoc networks	27.11.2008
10	2002419713	Saravanabava.TP	Modeling and analysis of intrusion detection system for real-time applications using soft computing techniques	08.10.2009

S. No.	Registration Number	Name of the Scholars	Research Title	Date of Viva-voce Exam
11	2004419702	Karthikeyan. N	Optimal resource utilization in cellular networks	09.10.2009
12	2006419716	Mani Anand K.P.	Self-generated-certificate public key cryptography for e-commerce	09.07.2012
13	2007419137	Indra Gandhi. K	A comprehensive scheduling strategy for data acquisition in wireless sensor networks	01.10.2012
14	2724419755	Angelin Gladston (As Joint Supervisor)	Techniques for test case selection & prioritization using metaheuristic appro	31.12.2013
15	2813319710	Vetrivelan. P	Game-theoretic and weighted-ranking approaches for seamless vertical handover in 4G heterogeneous networks	06.03.2014
16	2006419111	Thangaraj. N	Enhanced multihop routing and vertical handover in heterogeneous opportunistic mobile network	29.10.2014
17	2824419147	Selvi Ravindran	Geocasting in spatially separated wireless adhoc and sensor networks	11.12.2015
18	2011114126	Rajasoundaran. S	Concealed Watchdog Selection Approaches for Secure Routing and Monitoring in Wireless Sensor Networks	08.06.2017
19	2824419119	Sathyalakshmi. S	Machine intelligence based reliable grid scheduler using system logs	14.06.2017
20	2924419741	Gayathri. A	New techniques for intrusion prevention and enhancing the performance in MANETs	Thesis Submitted
21	2923419704	Arivoli. A	Cross-layer design of an IEEE802.11b LOADPOWER control protocol based on Transmission power in wireless ad-hoc networks	-

LIST OF SCHOLARS CURRENTLY PURSUING RESEARCH (SUPERVISOR)

S. No.	Register Number	Name of the Scholars	Research Area
1	2011114072	Jansi Rani. S.V	Energy and Efficient Networking
2	1214419823	Shanmugam. T	Datacenter Networking
3	1224419115	Amudha. G	Wireless sensor networks
4	1424419220	Tina Esther Trueman	Ranking of cloud services

LIST OF SCHOLARS CURRENTLY PURSUING RESEARCH (JOINT SUPERVISOR)

S. No.	Register Number	Name of the Scholars	Research Area
1	2011114089	Sanju P	Wireless and mobile sensor networks
2	2011114090	Arjun P	Software Defined Networks
3	2011114097	Kaladevi R	Data mining and wireless sensor networks

SUBJECTS HANDLED FOR UG

- Mobile computing
- Computer Networks
- TCP/IP Design and Implementation
- Network Protocols and Management
- Computer Organization and Architecture
- Database Management Systems
- Operating Systems
- Programming Languages (FORTRAN, COBOL, PASCAL, C, C++, JAVA)
- Assembly Language Programming
- PERT/CPM

SUBJECTS HANDLED FOR PG

- Data Structures and Algorithms
- System Analysis and Design
- Object-oriented Programming
- System Software
- System Simulation
- Unix Internals
- Cloud Computing Technologies
- Inventory Control and Queuing theory

AREAS OF RESEARCH

- Computer Networks
- Architecture and Design
- Optimization Techniques
- Network Security
- Mobile Adhoc Networks
- Wireless Adhoc Networks
- VLSI Design and Testing
- Cloud Computing

CONTRIBUTIONS IN DIFFERENT ADMINISTRATIVE ROLES

Dean & Warden, College of Engineering, Anna University, May 2014 to Till date

- Online fee payment for all UG and PG Programmes since 2015.
- Students are linked through WhatsApp with the Dean 24 hours. Information regarding placements, seminars, endowments, etc is intimated to the students immediately.
- Responsible for conducting career orientation programme periodically which the students find very useful in finding the right path to carve a niche for themselves in the corporate world.
- Arrangement of Mock interviews for the students by the Industrialists and Academicians.

- Formed an alumni network of over 10,000 students which serves as an important resource for our university.
- Responsible for installation of over 60 CCTV units (40 in hostels and 25 in campus) in order to ensure high security in the campus.
- Energized the NSS, NSO and YRC to be very active and periodically organized dawn to dusk cleaning programmes to promote the green campus initiative.
- Promoted the planting of trees by the NSS and student clubs of around 20 numbers.
- Formulated a plan for the construction of a pond with an area of 10000 sq.m by 4m depth at a cost of Rupees 50 lakhs (ongoing) which will provide water supply to the hostel capacity of 4000 students for a minimum of 6 months.
- Introduced steam cooking in hostels to ensure hygienic preparation of food.
- WiFi provision is given in all the 20 blocks of hostels for the students to stay connected all the time.
- Mega mess construction with a capacity of approximately 2100 students at a time. (ground + 2 x 700/floor).
- Hostel was provided for postgraduate students after a gap of 12 years.
- Ensured 100% Ragging free campus through initiatives such as Anti-Ragging patrol vehicle and the establishment of anti-ragging committee.
- Automated the process of obtaining the Transfer certificate, bonafide certificate, fee payment, scholarship payment and student information to facilitate the easy procurement of the above documents by the students.
- An Incubation centre was implemented to encourage entrepreneurial initiatives amongst the faculty and students and also to explore and implement the innovative ideas into a commercially viable product through the startup companies (Instituted in the month of January 2016).
- Vivekananda Auditorium was renovated at a cost of Rs.4 Crores with state of art facilities, which is now the pride and joy of the CEG Campus.
- The campus is fully connected to the internet by means of 12 WiFi trees distributed around the campus.
- An additional power of 500 kW has been added to fulfill the needs of the campus.
- Installation of 500 kW solar system has been approved.
- A Tram project has been approved for fulfilling the needs of the staff and students at an estimated cost of 8 Crores with 50% contribution by MRNE and Anna University each.

- Appointed a student counselor Dr. Vasanthi Babu on 05.10.2015 to motivate and guide the students.
- A Web portal has been created for loading student data into the database, preparing transfer and bonafide certificates, collecting admission details and updating in the database and replying to queries and sending reports to the student section.

Additional Controller of Examinations (ACOE), University Departments, May 2012 to June 2014

- Streamlined the question paper setting process.
- Streamlined the answer paper evaluation methodology.
- Computerized the allotment of examiners.
- Introduced academic auditing.
- Reintroduced dummy number during re-evaluation for Regular and part-time programmes.
- Introduced online publication of results.
- Introduced online fee payment for regular and arrear examinations.

Director, Centre for Faculty Development, Anna University, August 2011 to May 2012

- EDUSAT programme under the Faculty development programme was organized in which 400 staff members per semester were trained.
- Conducted Residential Faculty Development Programmes during winter and summer sessions for the benefit of teachers.
- Conducted web content lecture series on all the subjects under Electrical and Electronics Engineering, Computer Science and Engineering, Electronics and Communication Engineering and Mechanical Engineering.
- Conducted workshop on teaching skills and smart classroom tools for the faculty members of constituent Colleges in Tamilnadu.
- Conducted Bridge Course for first year engineering students for the subjects Mathematics, Physics and English.
- Conducted two days orientation course for faculty of all affiliated Engineering Colleges to handle the bridge course on Mathematics, Physics and English.

Director, Centre for Academic Courses, AUTC, July 2010 to July 2011

- Responsible for framing the curricula and syllabi for Anna University and its Affiliated Colleges.
- Conducted Board of Studies (BOS) meeting for all eight faculties to frame the curricula and syllabi in the year 2010 for UG and PG Programmes.

- Invited experts from Industries and Academic Institutions for framing the syllabus.
- Chairman of Expert Committee to access engineering colleges for affiliation.

Coordinator, Centre for Distance Education, Anna University, March 2009 to June 2010

- In-charge for revision of Curriculum and Syllabi for MCA and M.Sc. programmes.
- Introduced counseling system for admissions to MBA, MCA and M.Sc. programmes in various Institutions.
- Prepared Course Material on Mobile Computing for MCA Students.

Professor and Head, Department of Computer Science and Engineering, CEG, Anna University, January 2006 to January 2009

- Overall In-charge for the curriculum and syllabus revision in 2008 for B.E (CSE), B.Tech. (IT), ME (CSE) ME (Multimedia) and ME (Software Engineering) for University Departments and affiliated colleges of Anna University.
- Responsible for obtaining the NBA approval for a period of 5 years for B. Tech. (IT) in 2008.
- New teaching methods such as case study based approach, mini projects/class projects based approach, TCS technology enhanced learning laboratory for programming based courses, Rigorous review of long duration for Final year projects by a three member committee were adopted.
- Areas of Database, Web Technologies and Networks have been recognized by MHRD, DST, FIST and AICTE.
- Department was identified as a nodal centre for manpower training in the area of Information Security.
- Department was identified as one of the 5 institutes to offer specialized ME programme in Knowledge Engineering and Computational Linguistics.
- Identified by INTEL for a multi-Core Lab at the department.
- Initiated the IBM-Anna University Academic Initiatives Programme.
- Recognized by Cisco for forming the CISCO-AU Regional Academy at the department. Every semester around 40 students were trained by the expert from Anna University and CISCO.
- A periodic workshop every six months on Indian Sciences for school Children - Focusing on Math and Logical skills.
- Development of Specialized Software for Spastic Children at Vidyasagar by UG students as a summer project.

Professor, Department of Computer Science and Engineering, CEG, Anna University, February 2000 to Till date

- Chief Superintendent for Post Graduate examinations for 3 years.
- Professor in-charge and project coordinator for MCA programme during 2000-2002.
- President of alumni association of Computer Science and Engineering.
- Professor in-charge and project coordinator for ME (CSE) programme during 2009-2010.

Secretary, Tamil Nadu Engineering Admissions (TNEA), April 2002 to April 2006

- Distributed computerized unified single window counseling system for various colleges and branches of study consisting of several Hardware components at four counseling centres (Chennai, Trichy, Madurai and Coimbatore). Layering different modules of software and hardware to form an integrated system though the process is physically separated and held at four different locations, logically it was operated as a single queue based on merit. The hardware system consists of four separate Local Area Network (LAN) at all the four locations, having redundant servers at all centres through 128Kbps connectivity. For backup, two VSATs and one ISDN line were provided. Big multimedia display systems were arranged at various locations for easy viewing of the vacancies. The candidates were able to query the computer system either college wise or branch wise for the vacancies. This system was very well received by all the stake holders.

Coordinator, AUDEL Programme, June 1995 to February 1997

- Initiated and implemented new courses such as Internet Programming in Java, Visual Basic, Visual C++, Mainframe, Professional Videography, Oracle and E-commerce.
- Conducted various courses through AUDEL programme which had resulted in revenue generation of Rs. 10 Lakhs for Anna University.
- DC Elcot has donated the SYBASE software of value Rs. 4.1 Lakhs to RCC.
- Designed and developed AUDEL information system to automate the fee collection, generation of reminder slip to the students for the payment of fees.

Ramanujan Computing Centre, June 1982 to February 2000

- Involved in the design of the coding sheet for Tamilnadu Professional Courses Entrance Examination (TNPCEE) Application and Answer sheet every year.
- Responsible for the confidential and sensitive task of scanning the TNPCEE answer sheets and conversion of the same into a text file for evaluation.
- Involved in the design of application form for admission to engineering colleges through single window system of engineering admissions.

- Preparation of basic admission records, merging academic marks with entrance examination marks and preparation of rank list for the candidates who have applied for admission to engineering colleges through single window system.
- Allotment of colleges and branches to the candidates, display of seat availability and counseling of candidates through single window system.
- President of computer society and guiding the students in the organization of short term courses and National level seminars since 1990.
- Member of the development team for computerization of pay bills for Anna University Employees.
- Developed GPF Information System for Anna University Employees.
- Designed and implemented a Database for the members of Indian Science Congress.
- Organized the school linkage programme for the Corporation Schools in Chennai during Sundays. This programme was conducted for three years from 1993 to 1995, for about 22 Sundays every year.
- Involved in the provision of infrastructure facilities to AU-FRG CAD/CAM Centre during the installation of Computer systems in the year 1995-1996. This project took one year for completion which covered partitioning, commissioning of Computer systems, commissioning of Air Conditioning Units, arrangement of training to the users by German experts, purchase of UPS etc.
- Involved in providing infrastructure facilities in RCC ANNEXE and setting up of Computer Laboratory with facilities to accommodate 80 students at a time.
- Monitored the construction of new building for Ramanujan Computing Centre.
- Developed a system for Evaluating the responses of Post Graduate Entrance Examination in Medicine.
- Developed a system for processing Admission Records of Under Graduate Medicine courses.
- A system for Computerization of Pay bill to employees of Tamil Nadu Agro Industries Corporation Limited was introduced.

PROFESSIONAL ACTIVITIES

- Member, Academic Council, Anna University
- Chairman, Standing committee for affiliation of institutions, Anna University.
- Member, Academic Council, Kongu Engineering College, Erode
- Member, Expert Committee to assess Engineering Colleges for Recognition/ Extension of Recognition by AICTE.
- Member, selection committee for selection of staff for CSE and IT of University departments and constituent colleges.
- Chairman, scrutinizing committee for scrutinizing applications for CSE and IT of University departments and constituent colleges.
- Member, committee for the conduct of written examination for the recruitment of Lecturer at UG level in Government Engineering Colleges in Tamil Nadu.
- Member Secretary, Advisory Committee of AUDEL programme, Anna University.
- Chairman, MCA Board for Question Paper setting for Bharathiar University.
- Member, Board of Studies, Coimbatore Institute of Technology (CIT), Coimbatore, Tamil Nadu.
- Member, Board of Studies, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu.
- Member, Board of Studies, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu.
- Member, Results Passing Board, Coimbatore Institute of Technology (CIT), Coimbatore, Tamil Nadu.
- Member, Results Passing Board, PSG College of Technology, Coimbatore, Tamil Nadu.

SHORT TERM COURSES ORGANIZED

- Two week training programme on Office automation for the administrative staff of Anna University.
- Three week Software development and training programme for employees of Tamil Nadu Agro Industries Corporation Limited.

- Two week course on computer training under job oriented training scheme for the staff of district welfare backward classes.
- Two week intensive training programme on Educational applications of computers for educational administrators of district institutes of education and training of Government of Tamil Nadu.
- Two week AICTE sponsored short term course on Internet and Webpage design for MCA teachers.
- Two week AICTE sponsored winter school/workshop programme on high speed networks.
- Two days workshop on Wireless Technologies.
- Three days seminar on Technical Communication sponsored by S A International Ltd.
- Two week QIP short time course on Modern Computer Network Management for MCA teachers.
- Two week Intensive training programme on Educational Applications of Computer for Educational Administrators of District Institutes of Education and Training.

SHORT TERM COURSES ATTENDED

- Two week summer school on New Approaches on Linear Programming, organized by the Department of Computer Science and Engineering, Anna University.
- Two week training programme on Unix and C, organized by M/s. OMC Computers Limited.
- Two week ISTE sponsored winter school on Pattern Recognition and Neural Networks, organized by the Department of Computer Science and Engineering, Anna University.
- Five day Short term course on Educational Applications of Multimedia conducted by Indian Institute of Technology Bombay, Mumbai.
- Five day training in Hardware, organized by Indian Institute of Science, Bangalore.
- Two day seminar on OPEN 95 Transition Management.
- Two week training programme on Networking conducted by HCL COMNET.
- Two week training programme on Oracle, organized by HCL-HP.
- Three days seminar-cum-workshop on Technical Communication, organized by Simon Fraser University, Vancouver, Canada at Anna University.

HIGHLIGHTS OF A FEW IMPORTANT PROJECTS

1. Campus Networking

As part of this project a HP9000 server was installed in Ramanujan Computing Centre with various DBMS packages and compilers so as to serve as a central server for high end computing needs of the users. This server is accessible to other computers of different platforms available in Ramanujan Computing Centre and various departments through Fibre Optic Backbone with a transfer rate of 100Mbps. The resources available in RCC are now freely available to the users from their desktop computer itself.

The campus network is further connected to the Internet through 64Kbps radio link. All the computers are now having access to the resources available on the Internet apart from our own web, mail and FTP servers.

2. Regional Languages Support in Handheld Devices

The main scope of this project was to provide effective information in regional languages for mobile devices based on the request of the native users. This project made it possible to use regional languages without the need to download special fonts or plug-ins for the mobile device. It was developed for interactive web applications namely messaging, M-Commerce , etc; in regional languages for mobile devices. It supports regional language text input as well as display in any handheld devices. Information required for the user will be retrieved using Information Extraction and stored in a proxy server. This information will be translated into Indian languages and exported to mobile devices.

3. Bilingual UNL based Semantic Search Engine

In this project, a bilingual semantic search engine was designed and implemented to retrieve relevant information in English and regional languages for the user to query in any one of the languages.

The Universal Networking Language was used for representing the documents of the two languages. The semantic units extracted using linguistic based heuristic rules and syntactic patterns of the language were used for representation instead of only keywords in the current search engine design. Hence the relevant documents are retrieved in response to the user query.

4. Computerization of Purchase of Equipments for ASRTU

a) Rate Contract System

Association of State Road Transport Undertakings (ASRTU), New Delhi, processed the tenders for the purchase of different spares for buses and finalizing the contract. The complete automation of this system starting from preparation of tender notice to finalization of rate contract was designed and the software was developed. This Decision Support System (DSS) aids the management in finalizing the rate contract and generate various information reports. Any State Transport Undertaking all over the country can access the database from a Main Server Located in New Delhi, for various information required for planning purposes.

The Software was developed using Oracle 8 as the back end (RDBMS) and Visual Basic 6 as the Front End Tool.

The other modules are as follows:

- b) Rebate Monitoring System
- c) Passenger Transport Information System
- d) STU's Profile

5. Solar Tram (Ongoing)

In recent times there is an appreciable growth in solar PV system for various applications. The Government of Tamil Nadu has a vision in promoting solar energy in a large scale as per the Tamil Nadu Solar Energy Policy 2012. Anna University has taken the initiative to implement based on the government's endeavor to promote solar energy based projects and activities. In this regard, a novel project titled " The Design and Development of Smart Solar Train for Short Distance Mobility" has been submitted to the Ministry of New and Renewable Energy with a financial support of 7.83 crores. The Ministry has approved a partial grant support of Rs. 4 Crores for the Solar PV system and DC grid. The remaining grant of 3.83 Crores for laying tracks and coaches is supported by the University.

FOREIGN VISITS

- California - March 1998, Presented a research paper in International Conference on Operations Research.
- Malaysia - August 2002, Participated in Microsoft Research Summit.
- Bangkok - June 2006, Presented a research paper in IEEE International Conference on Cybernetics and Intelligent Systems.
- Jeju-Island Korea- December 2007, Presented a research paper in International Conference on Future Generation Communication Networks
- USA- July 2008, Participated in Microsoft Research Faculty Summit.
- Australia- March 2009 TEQIP for Interaction with five Universities.
- Dubai - April 2013, Gulf Education and Training Education (GETEX-2013)
- Doha, Qatar- January 2014, India Education Exhibition.