

ANNUAL REPORT

2011-12



**Dhirubhai Ambani
Institute of Information and Communication Technology**

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August 2011 – July 2012



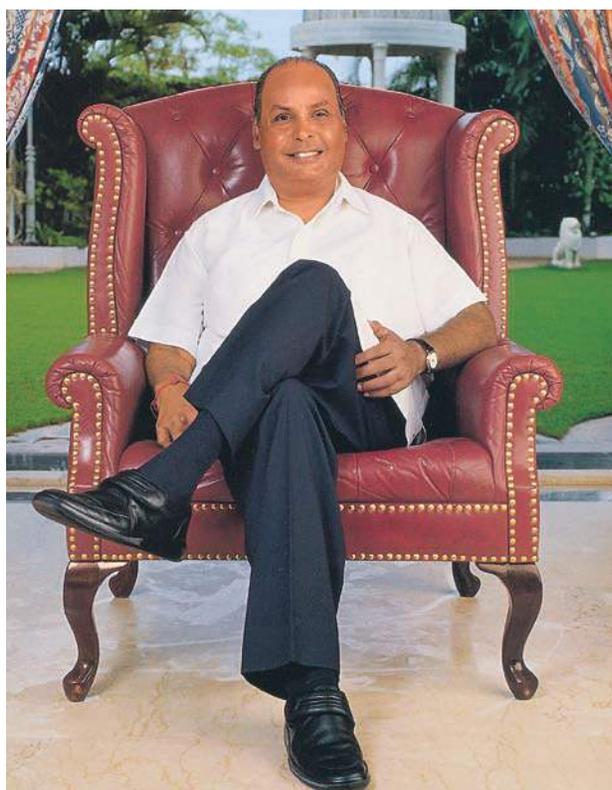
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Shri. Dhirubhai Hirachand Ambani

(28th December, 1932 – 6th July, 2002)

Founder Chairman, Reliance Group

Founder Chairman, DA-IICT





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BOARD OF GOVERNORS



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Shri Anil D Ambani

Chairman, Reliance Group, Mumbai

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Former Chairman, All India Council of Technical Education, New Delhi

Prof B S Sonde

Former Vice Chancellor, Goa University, Panaji

Prof Ashok Jhunjhunwala

Professor, Indian Institute of Technology Madras, Chennai

Prof S C Sahasrabudhe

Director, DA-IICT, Gandhinagar

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Principal Secretary, Department of Higher & Technical Education, Government of Gujarat, Gandhinagar

Shri Ravi Saxena

Addl.Chief Secretary,
Department of Science & Technology,
Government of Gujarat, Gandhinagar

Shri Suresh Rangachar

Dhirubhai Ambani Institute of Information and Communication Technology Society, Mumbai

Shri Dharmendra Bhandari

Dhirubhai Ambani Institute of Information and Communication Technology Society, Mumbai

Shri Manikantan Iyer

Reliance Communications Limited, Mumbai

Shri N K Mangla

Reliance Communications Limited, Mumbai

Shri Vinay Gupta

Reliance Communications Limited, Mumbai

Shri Anil Nahata

Reliance Communications Limited, Mumbai

Shri Vishwas Joshi

Reliance Communications Limited, Mumbai

Prof Sanjay Chaudhary

Dean (Academic Programs),
DA-IICT, Gandhinagar

Prof Anish Mathuria

Dean (Research & Development),
DA-IICT, Gandhinagar

Secretary

Prof Samaresh Chatterji

Executive Registrar (I/c),
DA-IICT, Gandhinagar

[For the rest of the Institute Management, please see **Annexure 1**]





Prof. S C Sahasrabudhe

This report looks at the progress of DA-IICT in the year 2011-2012. It has been a very productive year for us. The Institute has continued to progress steadily and decisively in all its fields of activity. Right from the beginning, our objective has been to become a valued research-cum-teaching institute in the field of information and communication technology (ICT). Among the new developments at the Institute are (1) Much greater enrolment of girl students, and (2) Designing of a new program at the undergraduate level BTech (Hons) Computational Science. This report will enable the reader to see and judge how far we have come.

A capable faculty that values scholarship and research, and a motivated and gifted student body, are two essential ingredients for our march towards our stated objective. The Institute has tracked these two targets painstakingly and has explored all possibilities. As we seek to establish ourselves in the academic community, we have tried to reach out to our peers all over the world for co-operation in research and education. We hope to extend this reach in the years ahead.

By making this report an open document easily available to all, we offer ourselves to closer and critical public scrutiny, and welcome comments and constructive suggestions from everyone.

Prof. S C Sahasrabudhe
Director, DA-IICT



ABOUT THE INSTITUTE

The Institute

The Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) was established in 2001. The DA-IICT became a University by an Act of the Gujarat State Legislature in 2003 and is recognized as a statutory University by the University Grants Commission. DA-IICT seeks to invoke the broader vision of the late Shri. Dhirubhai Ambani, the founder of Reliance Group, and weave both knowledge and innovation as part of an evolving style. The Institute was visualized as a research-driven institute embodying the vision of India as a knowledge society. It is the only advanced research, teaching and training institution on Information and Communication Technology (ICT) named after the (late) Shri. Dhirubhai Ambani.

In addition to a unique undergraduate program, BTech (Information and Communication Technology), the first of its kind in India, the Institute offers a variety of academic programs at postgraduate and doctoral levels. DA-IICT also offers a number of high-end Continuing Education Programmes (CEP) to upgrade the skills and competence of professionals, government officials and defence service men. Research initiatives of DA-IICT are aimed at technological development and at the enhancement of interaction with leading industries and organisations in India and abroad.

DA-IICT places great importance on having a highly qualified and research-oriented faculty. The faculty's background is fairly international: majority of them have returned from abroad after obtaining their doctorates and teaching in reputed Universities. They are known for their research achievements and innovative teaching skills.

The Institute has built up a stellar reputation in a short period of twelve years and made significant contributions to ICT. The authoritative DataQuest CMR T-School Survey 2012 has included the Institute in the club of ten Technology Schools in the country immediately next to the long established Indian Institutes of Technology. The graduates of the Institute have been employed by



the public sector, industry, Civil Society Organizations (CSOs), and academia. They are highly rated by these organisations, both technically and professionally. A significant number of graduates have started their own enterprises. DA-IICT has been admitted as a member of the Association of Indian Universities (AIU) after an assessment process carried out by the AIU Accrediation Committee.

Location

Gandhinagar, the capital of Gujarat, is a modernised twin city for Ahmedabad and is fast emerging as a knowledge city. After the establishment of an Information Technology Park (Info-City), DA-IICT was founded at Gandhinagar as the first node of an institutional concentration that would transform Gandhinagar into a knowledge city. The subsequent range of institutes, inter alia, includes campuses of the National Institute of Fashion Technology, the National Institute of Design, the Gujarat National Law University, the Pandit Deendayal Petroleum University, the Indian Institute of Technology Gandhinagar, Institute of Seismological Research and the Central University of Gujarat.

The city constitutes a knowledge hub and an ecological corridor rendering it into a green city. The Institute can be reached in about 30 minutes from Ahmedabad Airport and Railway Station.

Campus

The architecture of DA-IICT is functional, but what surrounds it is an elegant landscaped garden. The entire design was oriented towards preserving the environment. There are over 2500 trees, mostly belonging to indigenous varieties. The lawn area measures roughly 50,000 square meters. Over 3000 bamboos mask the concrete structure of faculty blocks and Resource Centre. Adjacent to the Resource Centre stands the herb garden with many species of rare medicinal plants. The entire campus was planned and developed in a manner that no excess rainwater is lost and all irrigation is carried out with recycled water. The campus is a haven for bird-watchers, with many species of birds being observed.



ACADEMIC PROGRAMS

DA-IICT is a pioneering institute in the domain of ICT. It offers an undergraduate program (ICT), four postgraduate programs and a doctoral program leading to the award of the PhD degree. Academic programs have a significant research and development component. The faculty members are actively involved in research and development activities and it is reflected in their teaching. DA-IICT also offers short-term training programs under the Continuing Education Program (CEP). The details of the academic programs offered are given in Table 1.

Table 1: Academic Programs

Sr No	Name of the Program	Commencement	Duration (Years)	Annual Intake*
1	BTech (ICT)	2001	4	240
2	MTech (ICT)	2002	2	50
3	MSc (Information Technology)	2002	2	90
4	MSc (ICT in Agriculture and Rural Development)	2002	2	20
5	MDes (Communication Design)	2004	2	20
6	PhD	2002	3-5	10-20

*Exclusive of foreign students

CURRICULUM REVISION

The Review Committee for the MSc (IT) program has submitted its final report for approval to the Academic Council. The revised curriculum will be effective from academic year 2013-14. The review process for MDes (CD) and MSc (ICT-ARD) programs is in progress.

The Institute is planning to introduce a BTech (Honours) program in Computational Science in the near future. This program is being designed to cater to the high performance computing and modeling needs, both in industry and academia.

ADMISSIONS

BTech

The notification for admission to the 12th batch of BTech program was issued in all major national newspapers in the last week of March 2012 with the last date for receipt of applications on 14 May 2012. A total of 18,051 application forms were availed by students from all over India. Of the total 240 seats, 50% were offered in the open category and the remaining 50% of seats were offered to students from the State of Gujarat. The admission criterion remained unchanged - the merit rank in the AIEEE 2012 examination of CBSE Board was used as the sole criterion for admission. The Institute follows guidelines for admission of reserved category students. The starting and closing AIEEE merit ranks of the students admitted under each category appear in Table 2.

The eligible students in the all India category and the State category were invited to a counseling session on 26 and 27 June 2012. During counseling, students and their parents gained first-hand information about the Institute's programs, faculty, and campus facilities. Subsequent to the counseling sessions, 243 students were admitted. In addition, three students were admitted through Direct Admission of Foreign Student Channel.



Table 2: AIEEE Merit Ranks of Students

Best AIEEE Rank	All India (Gen)	1,526
	Gujarat (Gen)	122
Lowest AIEEE Rank	All India (Gen)	14,972
	Gujarat (Gen)	19,839

Postgraduate (PG) Programs

The admission to all PG programs, except for the MTech program, was done based on merit rank in the entrance test conducted by the Institute.

For the MTech program admission was carried out based on the GATE score in the disciplines of Electronics and Communication, Computer Science and Information Technology only. Applicants having a BTech / BE degree in ICT or allied disciplines or MSc degree in Mathematics, Physics, Electronics or Statistics were eligible. For the MSc (IT) and MSc (ICT-ARD) programs, the national level online entrance tests were conducted. For the MSc (IT), students were admitted solely based on their merit rank. For MSc (ICT-ARD) and MDes (CD) programs, short-listed students were called for interview at DA-IICT.

The Institute successfully conducted on-line entrance tests for the two MSc programs of the Institute using facilities provided by the Reliance World. The details about the entrance test dates for different graduate programs are presented in Table 3.

Table 3: Entrance Test Details

Programs	Test Location	Date
MSc (ICT-ARD)	On-line at major cities in India	3 June 2012
MSc (IT)	On-line at major cities in India	3 June 2012
MDes	DA-IICT Campus, Gandhinagar	6 July 2012
PhD	DA-IICT Campus, Gandhinagar	29 June 2012

Table 4 shows the total intake of each program and the number of students admitted at the end of the admission process.

Table 4: Admissions Details

Program	Applications Received	Admission offers
MTech (ICT)	1305	50
MSc (IT)	1112	90
MSc (ICT-ARD)	34	15
MDes (CD)	38	9
PhD	149	11

DA-IICT has an MoU with the Space Applications Centre (SAC) of ISRO to admit their employees into the PhD program. The candidates are selected after a rigorous admission screening carried out at SAC, followed by an interview at the Institute.



Orientation

All new UG and PG entrants reported to the campus one week before the commencement of the classes for orientation. During the general orientation, the UG students were given detailed account of the curriculum, academic requirements and policies. The students were given a campus tour to familiarize them with the facilities and resources available on campus. They met instructors of the first semester courses for briefings. Similar sessions were organized program-wise for the PG students, with emphasis on the details of the curriculum and the available options with regard to elective courses. Apart from academic orientation, student-volunteers also acquainted them with the campus life. All new entrants were exposed to various aspects of engineering with emphasis on ICT.

FINANCIAL SUPPORT

The Institute provides financial support in the form of scholarships and assistantships to eligible students as per the details given below.

Scholarships

The Institute offers Merit Scholarship and Merit-Cum-Means Scholarships for BTech (ICT) students. In each category, up to five students are awarded scholarships at the beginning of every academic year. The scholarship amount covers full tuition fee. The Merit scholarships are awarded in the first semester to all the students having AIEEE – All India rank up to 5000 and, thereafter, in each semester, based on their academic performance. The Merit-cum-Means scholarships are awarded to students based on their AIEEE All-India-rank provided that annual income of their parents/guardians does not exceed ₹ 2,50,000. In the first semester of academic year 2011-12, five students were awarded Merit-cum-Means Scholarship and two students the Merit scholarships. During the reporting period, a total of thirty three Merit-cum-Means Scholarships and five Merit Scholarships were awarded.

Assistantships

The Institute offers full-time performance-based and half-time teaching assistantships to eligible final year students of the MTech (ICT) and PhD programs. Teaching assistantships are also available to BTech (ICT) students.

THESES

Master's Theses

Students of the MTech (ICT) start their research work after completion of second semester and they work extensively under the guidance of Institute's faculty members. The MTech theses completed during the year are listed in Annexure 2. Students of MSc (ICT-ARD) and MDes (CD) programs work full-time on field-based projects or at leading organizations during their fourth semester at DA-IICT. The projects completed by MSc (ICT-ARD) students of programs during the year are given in the Annexure 2.

INSTITUTIONAL COLLABORATION AND STUDENT EXCHANGE PROGRAMS

DA-IICT and IIT Gandhinagar have signed an MoU on 2 July 2012 to promote collaboration for enhancing academic and research interaction. Under the Institutional collaboration, DA-IICT welcomes students from other institutions to carry out internships or project work under the guidance of our faculty. Trainees generally join the Institute during the summer semester when hostel facilities, laboratories and Resource Centre are relatively free.

The Network of Engineering Institutions (NEI) was initiated by Prof. Dipanker Nagchoudhuri of DA-IICT in January 2011 with the objective to enhance research activities at PhD level, especially in the area of VLSI. Currently, the NEI includes DA-IICT, MITS, LNMIIT and YCCE as member Institutions. Experts from various IITs, notably IIT Bombay and IIT Delhi, are also part of the network. The major emphasis is to provide quality programs including workshops conducted and evaluated by experts. The NEI acts as an interactive forum for the exchange of views and ideas among external

experts and students. It also enables sharing of research resources and provides mentorship to students.

Under the auspices of NEI, a workshop on 'Design of CMOS Analog Circuits' was organized at DA-IICT during 11-22 June 2012. Thirty-seven participants including 12 research scholars/faculty from the NEI member institutions and 10 faculty-members, attended the workshop. The Commissionerate of Technical Education, Gujarat, had sponsored the workshop.

CONTINUING EDUCATION PROGRAMS (CEP)

CEP has been an integral part from the early stage of DA-IICT. It provides high-end training programs in ICT for the benefit of professionals in different fields on a regular basis. It became an independent unit of the Institute in 2005. Many courses have been conducted for the Indian Air Force. The details of CEP offered are presented in Table 5.

Table 5: Details of CEP Offered

Sr No	Title of the Program	No of Candidates	Duration (Weeks)
1	Office Productivity Tools	27	2
2	Office Productivity Tools	15	2
3	Programmable System on Chip- 3 (PSOC)	22	2
4	Basics of Geomatics (Image Processing & GIS)	12	5
	Total	76	



PLACEMENTS AND INTERNSHIPS

PLACEMENTS

DA-IICT Placement Cell provides assistance for career development and placement assistance to undergraduate students and post-graduate students in the final year of their degree program. During 2011-12, the Placement Cell undertook the task of placing 302 students of BTech, MTech, MSc (IT) and MSc (ICT-ARD) Programs. The details of students opting for campus placement, jobs offered and jobs accepted by students of various programs are given in Table 6.

Table 6: Program-wise Number of Students Opted for Placement and Jobs Offered

Program	Students Opting for Campus Placement	Jobs Offered	Jobs Accepted	Students Opting Out of Campus Placement
B Tech	172	172	150	22
M Tech	33	25	25	5
MSc (IT)	52	40	39	6
MSc (ICT-ARD)	12	12	12	0
Total	269	249	226	33

During 2011-12, 52 companies took part in the placement process and 86% students were offered jobs. Out of 269 students, 249 offers were made and 226 students accepted the offer. Program-wise break-up of offers made is given in Figure 1. The pay package varied between ₹ 3.00 Lakhs and ₹ 16 lakhs per annum with an average salary of ₹ 4.47 Lakhs per annum. The trends in average salary between 2009 and 2012 are presented in Figure 2.

Companies that visited the campus include: Microsoft, Direct-i, Verse Innovation, Saba Softwares, Kothari, Infotech, HP R&D, ZS Associates, Capillary, Samsung, Deloitte, MuSigma, Evosys, Ops Hub, Indigo, Nvidia, Cybage, Bitmapper, Maxim, Qualcomm, Airvana, Mindtree, Open Silicon, Alma Connect, Grit, Innovations, TCS, Impetus, Sapient nitro, SNL India, Infosys, SEWA, Persistent, Airtel, Tatvic, Educational Initiative, Elite Core, NSI Infinium, Zeus Learning, Flight Network, Ecolibrium Energy Pvt. Ltd., Hachi, Kuliza, 3J Business Solutions, Cocubes, Pitney Bowes, HnyB, Stay In Front, Syntel, Champion Agro, Reliance Fresh, CRD, Peshibo Wey Pvt. Ltd., Sumitomo Chemicals.

Figure 1 : Program-wise Statistics

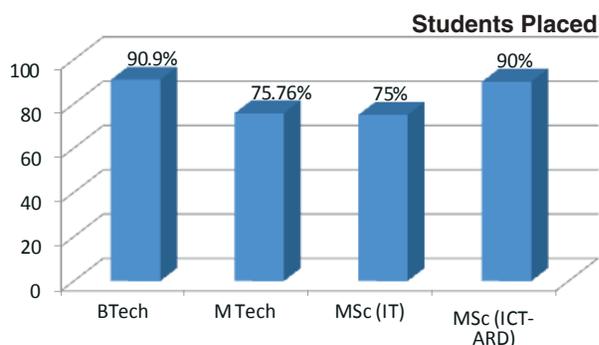
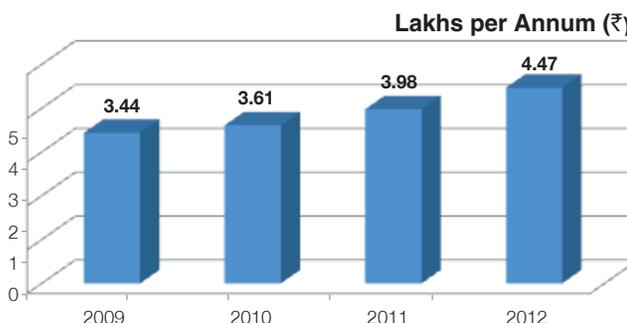


Figure 2: Trends in Average Salary



INTERNSHIP

Internships are joint ventures between the DA-IICT, potential employer and a student. Work assignments are related to a student's interest and are varied. They provide a range of experience and training. At the end of the 3rd semester, BTech students undertake Rural Internship and, at the end of the 6th semester, they are required to undertake a Research or Industrial Internship of 6 to 8 weeks during the summer vacation. In Research Internship, the students are required to work with a guide in an academic institution or a research and development wing of the industry. The purpose is to expose the student to a research environment under the supervision of an expert in an ongoing research area. The Industrial Internship exposes students to the working environment in industry with the expectation that such exposure would equip them with relevant knowledge and experience to make better choices for their career after graduation. Students learn techniques directly applicable to their careers and hone skills in the application of theory to practical work situations.

Industrial Internship

During May–July 2012, 66 BTech students successfully completed their internships in 34 different companies. The following companies accommodated the students for their internships.

List of Companies and Number of Students (in brackets) :

ArcGate, Udaipur (1)	National Informatics Centre, Lucknow (1)
Avian Consultancy Services, Ahmedabad (1)	National Informatics Centre, New Delhi (1)
Bharti Airtel Ltd., Gurgaon (1)	no2co2 Environmental Project, Mumbai (1)
Blogtard, Ahmedabad (3)	Nokia Siemens Networks India Pvt. Ltd., Ahmedabad (1)
CEON Solutions Pvt. Ltd., Ahmedabad (2)	Oracle India Pvt. Ltd., Gurgaon (1)
Colors - Brand & Event Management, Bangalore (1)	Play Power Labs, Gandhinagar (1)
Direct Internet Solutions Pvt. Ltd., Mumbai (1)	Qualcomm India Pvt. Ltd., Bangalore (1)
Electronics Corporation of India Ltd., Hyderabad (1)	Qualcomm India Pvt. Ltd., Hyderabad (5)
Ericsson India Pvt. Ltd., Jaipur (1)	Rolta India Ltd., Mumbai (1)
Essar Steel Ltd., Surat (1)	Siemens Ltd., Baroda (1)
Google Summer of Code Program - 2012 (7)	Siemens Ltd., Thane (1)
Grexlt Software Pvt. Ltd., Bangalore (1)	Simplifix Automation & Solutions Pvt. Ltd., Kanpur (1)
Hindustan Aeronautics Ltd., Hyderabad (1)	Sprinklr Solutions Pvt. Ltd., Gurgaon (2)
Hitachi Hi-Rel Power Electronics Pvt. Ltd., Gandhinagar (1)	Subex Ltd., Bangalore (1)
Indusface Pvt. Ltd., Vadodara (4)	Tata Consultancy Services, Bangalore (1)
iView Creations, Ahmedabad (2)	Tata Consultancy Services, Gandhinagar (15)
Logical Software Solutions Pvt. Ltd., Gandhinagar (1)	Uzanto Consulting Pvt. Ltd., New Delhi (1)

Rural Internship

A four-week Rural Internship is a statutory requirement for the BTech degree programme. Students are required to undertake the Internship during the break following the third Semester of their degree programme. During December 2011, the BTech students had undertaken internships in social and community organization in Gujarat, Madhya Pradesh, Chhattisgarh, Rajasthan, Himachal Pradesh, Andhra Pradesh, Uttar Pradesh, Maharashtra and Goa. Excepting in the North-Eastern States and the Andaman-Nicobar Islands, organizations from all other states had accepted the DA-ICT students for their Rural Internships. Forty-three NGOs hosted these Interns. Student reports indicate that the Rural Internship invariably becomes a crucial turning point in the social awareness of the intern.

The work carried out by the interns was designed to be non-technical. They were involved in projects that acquainted them with social realities, organizational issues, community concerns and development strategies. Their work covered areas such as primary education, healthcare, Panchayat Raj Institutions, microfinance, food security and gender issues. The 2011 group interns brought back to the Institute a huge, though an intangible, experience of the realities in India's developmental backwaters.



EIGHTH CONVOCATION

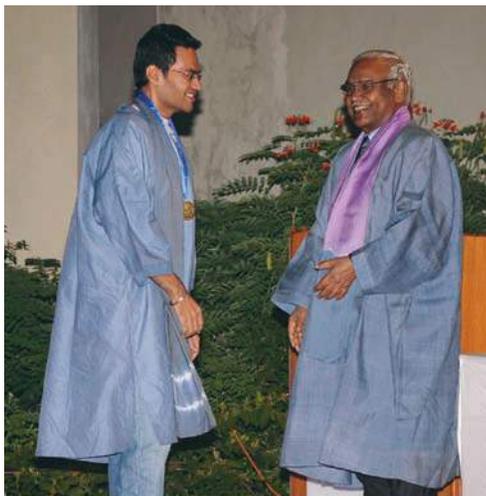
The Eighth Convocation of DA-IICT was held on 21 January 2012. Padma Shree Dr. Anandkrishnan, the Chairman, Board of Governors, Indian Institute of Technology Kanpur was the Chief Guest. Shri Suresh Rangachar, Member, Board of Governors presided over the Convocation. In all, 346 students received their degrees during the Convocation. PhD degree was awarded to three students (Ratnik Gandhi, Prakash Gajjar and Sunil Jardosh), MTech (ICT) degree to 43 students, MSc (IT) degree to 59 students, MSc (ICT-ARD) degree to 19 students, MDes (CD) degree to 5 students, and BTech (ICT) degree to 217 students.

The following students were awarded the President's Gold Medal attaining the highest scholastic achievement in their respective programs

MSc (IT) 2009	Vishal Mahesh Dhawani
BTech (ICT) 2007	Rachit Mittal



BTech 2007–11 batch students with faculty



Vishal Dhawani MSc (IT) 2009 receiving Gold Medal from the Chief Guest



Rachit Mittal BTech (ICT) 2007 receiving Gold Medal from the Chief Guest

In his address to the students and faculty, Dr. Anandkrishnan explained that innovation was the transformation of an idea into a marketable product or service, a new or improved manufacturing or distribution process, or even a new method of providing a social service and there was growing recognition that innovation encompass various activities including organizational changes, training, testing, marketing and design activities besides R&D; investments in knowledge-generating activities generally enhanced the competence of people, and the growth in the level of technology increased the productivity of labour and capital and resulted in new and innovative products and processes; thus, it was universally recognised that nations' economic growth was influenced to a large extent by knowledge-creating activities.

Referring to patents per capita as a measure of innovations, Dr. Anandkrishnan said that the United States took first place, followed by Japan and among the BRIC countries, India was ranked the 26th followed by Russia in the 34th and Brazil in the 41st position indicating the scope to nurture



PG 2009-11 batch students with faculty

more innovations in India. He said that encouraging innovation was not only the responsibility of government and educational institutions but also that of industries.

In the past ten years, some major innovations like smart phones, social networking, voice over IP, LED lighting, multi-core CPUs, cloud computing, drone aircraft, planetary rovers, flexible AC transmission, digital photography, he said, had contributed substantially to our society.

Dr. Anandkrishnan advised students to keep in mind that 'the signature of innovation must be engraved' in their professional journey.



RESEARCH AND DEVELOPMENT

Ever since it was founded, the Institute has had a vibrant research environment. This has brought dynamism to all academic activities. The Institute has a full range of research infrastructure and facilities, such as well-equipped laboratories, specialized equipments, campus-wide networking, and high-speed Internet access, and subscription to hundreds of print and online journals.

The faculty, students, and research staff are active in research in several academic disciplines, including but not limited to the following: Computer Science, Electronics and Communication, Mathematics, Physics, Agriculture and Rural Development, Humanities, and Social Sciences. The faculty members have been regularly publishing their research work in leading refereed journals and conferences. Over the last decade, a large number of sponsored projects have been initiated by faculty, including international projects.

New Sponsored Projects

In the year 2011-12, the Institute received grants for seven new sponsored projects. The two major grants received during this year are for speech-processing research, with a total funding of ₹ 127.50 lakh from DIT. These grants have been awarded as part of two networked projects being implemented by consortia of prominent national institutes, one led by IIT Madras and another by IIIT Hyderabad.

Agency	Project Title	Duration	Investigators
BRNS	Techniques for Robust Face Recognition with post variation	2012-15 (3 Years)	Suman Mitra Mehul Raval
DIT	Development of Text to Speech System in Indian Languages High quality text to speech synthesis and small footprint TTS integrated with disability aids	2011-14 (3 Years)	Hemant Patil M.V. Joshi
DIT	Development of Prosodically Guided Phonetic Engine for searching in Indian Languages	2011-13 (2 Years)	Hemant Patil M.V. Joshi
DST (WOS-A)	Evaluation of spatiotemporal dynamics of land surface evapotranspiration and monsoon rainfall coupling over Indian region for climate change studies	2012-15 (3 Years)	Indrani Choudhury Singh Ranendu Ghosh
ezDI, Ahmedabad Research Centre	Semantic Web Based Parser, SPARQL Query Builder and Information Extraction from Social Networks	2012-13 (1 Year)	Sanjay Chaudhary P.M. Jat Minal Bhise
IEEE Foundation	Water Quality Monitoring	2012-15 (3 Years)	Rahul Dubey
Space Application Centre (ISRO)	Design, Development and Hardware Implementation of BPSK, QPSK and other modulation schemes as part of Software Defined Radio (SDR)/ Cognitive Radio (CR), for use in SATCOM terminals	2011-13 (2 Years)	Vijay Kumar Chakka Rahul Dubey



Ongoing Sponsored Projects

Faculty continued the work on fourteen ongoing sponsored projects. Four of these have collaborative linkages with researchers from universities in France, Spain, UK, and Japan.

Agency	Project Title	Investigators
Board for Research in Fusion Technologies (BRFST)	Sensor Network Test-Bed For Tokamak Environment	Prabhat Ranjan Rahul Dubey
Board for Research in Nuclear Sciences (BRNS)	Securing Biometric Data Using Data Hiding Techniques	Mehul Raval
DIT	Development of Cross Lingual Information (CLIA) System Phase-II	Prasenjit Majumder Suman Mitra
DST (Indo-Japan)	Security Proofs And Multidisciplinary Evaluation For Dynamic Key Assignment Schemes	Anish Mathuria Manik Lal Das
DST (Indo-Spain)	Security and Privacy Infrastructure for Internet of Things – Scenarios and Applications	Manik Lal Das Anish Mathuria
DST	Wireless Telemedicine using Body Area Sensor Networks and Heterogeneous Access Networks	Laxminarayana Pillutla
DST	Distortion and Accuracy Improvement in Sample and Hold Circuits for Analog-Digital Converters	Subhajt Sen Chetan Parikh Dipankar Nagchoudhuri
DST	Service-oriented Architecture for spatial Data Integration and Spatial reasoning	Sanjay Chaudhary Minal Bhise
DST	Indian Digital Heritage (IDH-Hampi) Phase-II (Digital Capture of Culture & Heritage)	Manjunath Joshi Hemant Patil
Economic and Social Research Council (ESRC)	Integrated Histories of Andaman Islands	Vishvajit Pandya Madhumita Mazumdar
Indo-French Centre for the Promotion of Advanced Research (IFCPAR)	Robust Ultra-Low-Power Double-Gate MOSFET Design of Analog, Digital And SRAM Memory Circuits	Chetan Parikh Dipankar Nagchoudhuri
National Innovation Foundation	Value Addition in Grassroots Technologies	Anil Roy Rahul Dubey
National Trust	Finger/Wrist mounted Universal Remote Control for CP Patient	Prabhat Ranjan
Physical Research Laboratory (PRL)	Earth Model for Wireless Sensor Nodes for Detection of Water on Moon / Water sensing systems based on Tuned Diode Laser for Planetary Mission	Prabhat Ranjan

Incubation Centre

The Incubation Centre incubated 3 start-up companies started by students : AlmaConnect, Edu-Analytics and Playpower Labs. The founders of these companies are alumni or current students of BTech program. The companies were invited to come in person for presentation, and were selected based on favorable evaluation by expert committees. The Centre has offered funding to the incubated companies under grant received from DIT. The companies have also been allocated office workspace within the incubator.

Consultancy Projects

Faculty/staff provided consulting services to three organizations in their areas of expertise.

Organization	Consultancy Area	Faculty
Ganpat University	FPGA Design	Rahul Dubey
I-Nurture Education Solution Pvt. Ltd.	Curriculum and Content Development	Binita Desai
Uplift India Association	Mutual Insurance Schemes in Rural Institutions	Alka Parikh

International Project Visits

As part of government-funded bilateral sponsored projects, there were 3 exchange visits with 2 foreign partner institutions.

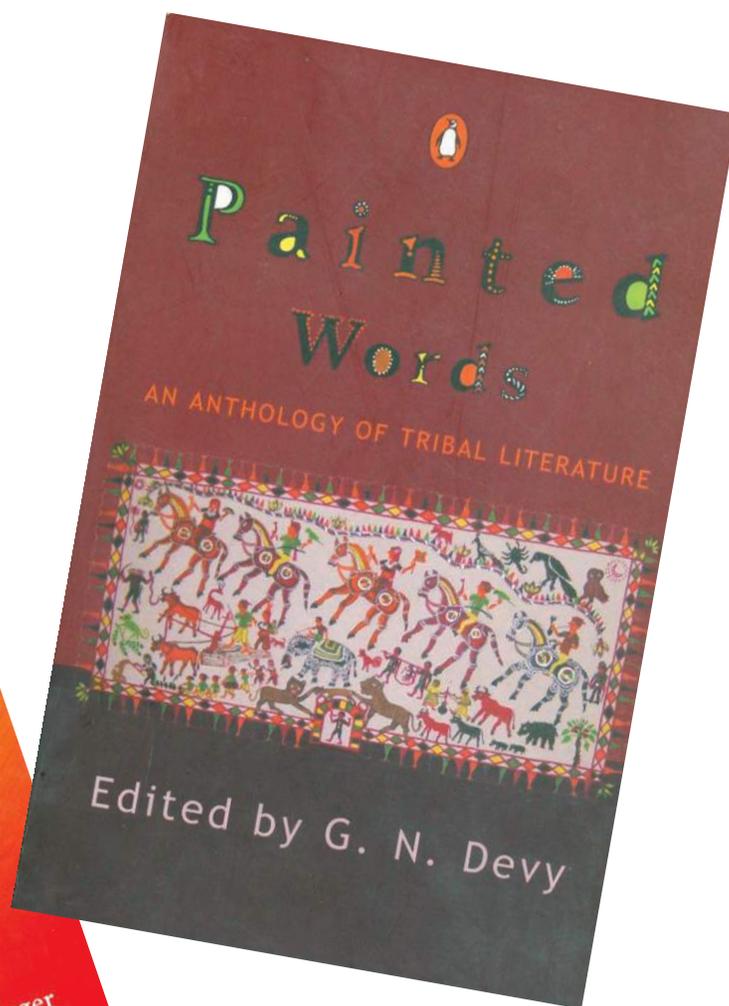
Prof. Dipankar Nagchoudhuri visited Institute Supérieur d'Electronique de Paris (ISEP), France, from 18 May to 2 June 2012, as a part of the Indo-French sponsored project.

Prof. Amara Amara of ISEP, France, visited DA-IICT from 27 December 2011 to 8 January 2012 as a part of the Indo-French sponsored project.

Prof. Manik Lal Das visited University of Malaga, Spain, from 17-24 March 2012, as a part of the Indo-Spain sponsored project.



PUBLICATIONS



Publications reflect the interests of the faculty and staff and their research initiatives. A majority of the publications have student co-authors, indicating a strong faculty commitment to train and mentor both postgraduate and undergraduate students in research. The publications listed here are those that appeared in peer-reviewed journals and conferences.

In 2011-2012, the faculty and staff edited one book, seven chapters in books, and eighty seven papers in journals and conferences and a report. In addition, over fifteen articles of general interest and four reviews were published in newspapers and magazines (not listed here).

Patents

1. Verma, P. K., **Ghosh, Anjan**, Sluss, Jr. J.J., Cheng, S, Martens, M, Huck, R.C., Chen, S. and Kaul, A. "Remote cervical dilation monitoring system and method", US Patent No. 8,100,840 B2, dated 24 January 2012, University of Oklahoma.

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2. Amy Neustein and **Hemant A. Patil** (Eds.), *Forensic Speaker Recognition: Law Enforcements and Counter-terrorism*. New York: Springer-Verlag, October 2011.

Books

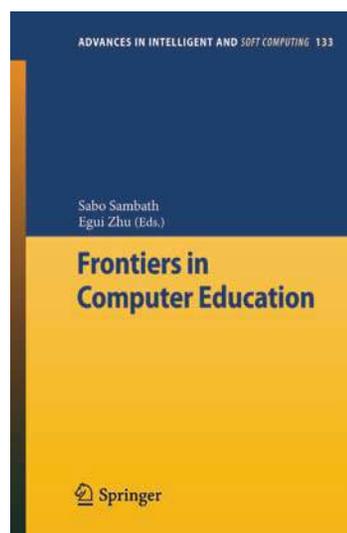
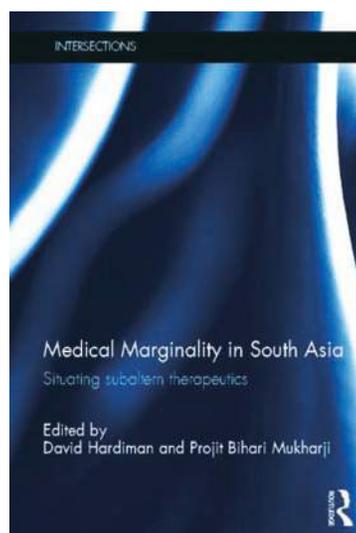
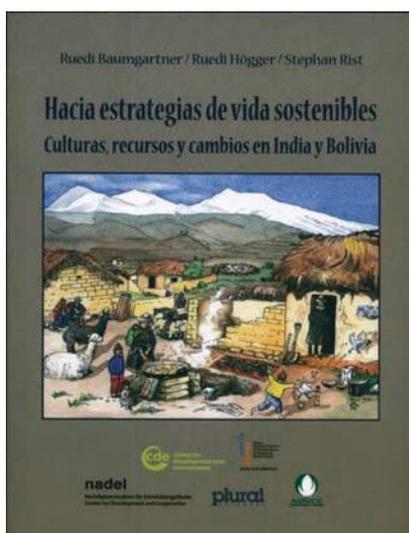
1. **Majumder, Prasenjit**, *Multilingual Information Access in South Asian Languages*, New York: Springer, 2012.

Book Chapters

1. સંજય ચૌધરી, “ધરતી આભનાં છેટાં : નારીનાં સ્વમાન અને ગૌરવની કથા”, પુસ્તક : પન્નાલાલની વાર્તા સૂઝિટમાં, પૃ. નં. 41-46, ગુજરાતી સાહિત્ય પરિષદ, ISBN: 978-81-924770-1-5, 2012.
2. **Hiremath, B. N.**, Raju, K. V. and Patel, Anil. „Adopción de Tecnología y Manejo de Granja en la Región Semiárida de Gujarat“ in *Baumgartner*, Ruedi, Ruedi Hogger and Stephan Rist (Eds.) ‚Hacia Estrategias de Vida Sostenibles: Culturas, Recursos y Cambios en India y Bolivia‘ (2011: Zurich, and La Paz (Bolivia): NCCR North-South / NADEL/ CDE and AGRUCO). pp. 85-108.
3. **Pandya, Vishvajit.** „Pain in all the wrong places; the experience of biomedicine among the ongoes of little Andamans,“ in *Medical Marginality in South Asia*, David Hardiman and P. Mukherji, Eds. Routledge, 2012, pp. 59-84.
4. **Patil, Hemant A.**, Madhavi, Maulik C., Jain, Rahul Jain and Jain, Alok Kumar “Combining evidences from temporal and spectral features for person recognition from humming,” in *Perception and Machine Intelligence*, Malay K. Kundu et. al. (Eds.), Lecture Notes in Computer Science, LNCS, vol. 7143, New York: Springer-Verlag, 2012, pp. 321-328.
5. **Patil, Hemant A.**, Goswami, Parth A. and Basu, T. K., “Novel interleaving schemes for speaker recognition over lossy networks,” *Perception and Machine Intelligence*, Malay K. Kundu et. al. (Eds.), Lecture Notes in Computer Science, LNCS, vol. 7143, New York: Springer-Verlag, 2012, pp. 329-337.
6. **Patil, Hemant A.**, Bajekar, Pallavi N. and Basu, T. K., “Novel temporal and spectral features derived from TEO for classification of normal and dysphonic voices,” in *Frontiers in Computer Education, Advances in Intelligent Computing*, Sambath, Sabo and Zhu, Egui (Eds), New York: Springer-Verlag, vol. 133, 2012, pp. 559-567.
7. **Patil, Hemant A.**, Cohen, Aaron E. and Parhi, Keshab K., “Speaker identification over narrowband VoIP networks,” in *Forensic Speaker Recognition: Law Enforcement and Counter-terrorism*, Amy Neustein and Hemant A. Patil (Eds.), New York: Springer-Verlag, 2011, pp. 125-151.

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2. Makwana, Gautam and **Ghodgaonkar, Deepak**, “Wideband stacked rectangular dielectric resonator antenna at 5.2 GHz,” *International Journal of Electromagnetics and Applications*, vol. 2, no. 3, pp. 41-45, June 2012.



3. Shah, Milind and **Gupta, Sanjeev**, "Single multi-band fractal antenna for L, S, C and X-band applications," *International Journal of Applied Engineering Research*, vol. 6, no. 6, pp. 841-847, 2011.
4. Dhoot, Vivek and **Gupta, Sanjeev**, "Design and analysis of a novel multifractal multiband antenna using 3D-FDTD method," *International Journal of Applied Electromagnetic Research* (IJAER), 2012.
5. **Mazumdar, Madhumita**, "Negotiating Gandhi - The life and experiences of Acharya P.C. Ray," *History and Sociology of South Asia*, vol. 6, no. 1, pp. 23-29, Jan. 2012.
6. Phophalia, Ashish and **Mitra, Suman K.**, "Bayesian estimation of spatially variant finite mixture model for brain MR image segmentation," *Asian Journal of Computer Science and Information Technology*, vol. 2, no. 5, pp. 94-98, 2012.
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9. **Parikh, Radha**, "Empowerment of women: Two wings of a bird," *Indian Journal of Career and Livelihood Planning*, vol. 1, no. 1, pp. 19-27, 2012.
10. **Parikh Radha**, "If this is love", *IR : Indian Review, Critiques & Writings from across India*, March 2012.
11. **Patil, Hemant A.** and Viswanath, Srikant, "Effectiveness of teager energy operator for epoch extraction from speech signals," *International Journal of Speech Technology* (IJST), vol. 14, no. 4, pp. 321-337, 2011.
12. **Patil, Hemant A.**, Madhavi, Maulik C. and Parhi, Keshab K., "Static and dynamic information derived from spectral and source-like features for person recognition from humming," *Special Issue on Speaker Recognition, International Journal of Speech Technology (IJST)*, vol. 15, no. 3, pp. 393-406, Springer, July 2012.
13. Chaturvedi, Manish and **Srivastava, Sanjay**, "On effectiveness of cooperation enforcement mechanisms in wireless ad hoc networks," *International Journal of Communication Networks and Distributed Systems (IJCND)*, vol. 9, no. 1/2, pp. 140-160, 2012.
14. **Vinayakray-Jani, Preetida** and Sanyal, Sugata, "Routing protocols for mobile and vehicular Ad hoc networks: A comparative analysis," *ACTA Technica Corviniensis*, vol. 5, no. 3, pp. 101-106, July 2012.
15. **Vinayakray-Jani, Preetida** and Sanyal, Sugata, "Proactive TCP mechanism to improve handover performance in mobile satellite and terrestrial networks," *International Journal of Computer Applications*, vol. 48, no. 25, pp. 25-29, June 2012.
16. Jani, Nidhi, Hadia, S. and **Vinayakray-Jani, Preetida**, "Clustering approach for distributed Co-operative detection in cognitive radio networks," *International Journal of Recent Technology in Engineering*, vol. 1, no. 1, pp. 112-116, April 2012.
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Conference and Workshop Papers

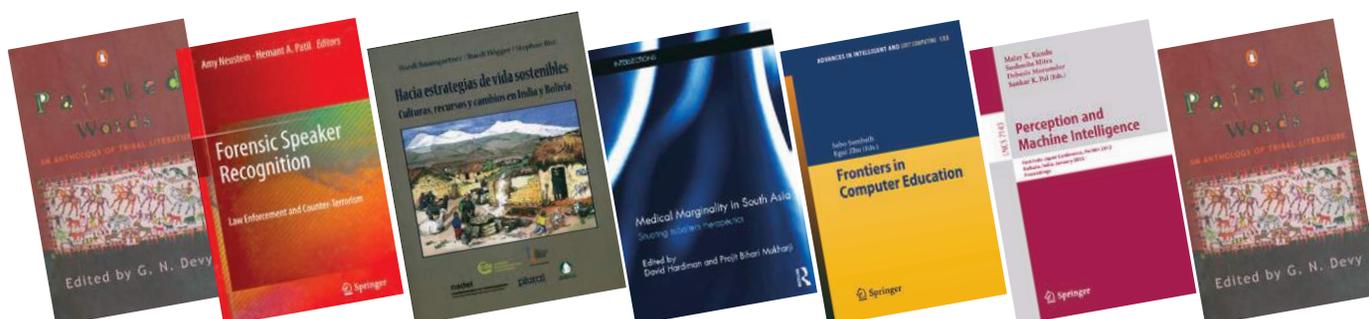
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25. **Mazumdar, Madhumita** and **Vishvajit, Pandya**, "Shifting categories: Making sense of the Andaman Islanders in colonial and post-colonial India," in *The 40th World Congress of the International Institute of Sociology*, New Delhi, IN, 16-19 February 2012.
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41. **Patil, Hemant A.** and Baljekar, Pallavi N., "Novel VTEO based Mel cepstral features for classification of normal and pathological voices," in *Proceedings of 12th Annual Conference of the International Speech Communication Association (INTERSPEECH-11)*, Florence, Italy, 28-31 August 2011, pp. 509-512.
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WORKSHOPS AND SPECIAL LECTURES

In addition to teaching and research, the Institute is also involved in organizing and hosting a number of professional events and activities such as conferences, seminars and workshops which serve as a platform for promoting interactions with wider academic and research community in India and abroad. The details of such events held at the Institute during the reporting year are given here.

Conferences/Seminars/Workshops

Research Promotion Workshop on 'Introduction to Graph and Geometric Algorithms' was arranged in collaboration with School of Computer Science, TIFR at DA-IICT from 14 to 16 March 2012

A Training Programme on "Basics of Geomatics (Image Processing & GIS), using Open Source Software" was arranged in association with Indian Geomatics Research Institute (IGRI) at DA-IICT from 28 May to 1 June 2012.

INSTITUTE LECTURE SERIES

Special Lectures:

Dr. A S Kiran Kumar, Associate Director, SAC (ISRO), 'Chandrayan Mission', 8 August 2011.

Dr. Amit Sengupta, Consultant in Obstetrics & Gynecology, Mumbai, 'ICT and Electronics for Affordable Health Care', 27 August 2011.

Prof. Phani Tetali, Industrial Design Centre - IIT Bombay, 'Game Design - A Case Study', 9 September 2011.

Dr. H S Singh, Addl Principal Chief Conservator of Forests, Govt. of Gujarat, 'Asiatic Lions, Forest Conservation and ICT', 12 October 2011.

Prof. Partha P. Banerjee, University of Dayton, Dayton, 'Metamaterials: from Fantasy to Reality', 12 December 2011.

Prof. Ross Smith, Microsoft, USA, 'Use of games and play in software engineering', 11 January 2012.

Dr. Anil Bheemaiah, Director of Friends of Wildlife, Bangalore, 'The Yellow Submarine Hydroelectricity Robot', 2 February 2012.

Dr. Mangesh Bedeker, BITS Pilani, 'Personal Web Search Systems', 2 February 2012.

Prof. Terence Tao, Department of Mathematics, UCLA, 'Structure and randomness in the prime numbers', 23 February 2012. (Webcast of the talk)

Prof. Anne Murray, Stanford University, 'Interactive Session', 24 February 2012.

Prof. S. D. Agashe, EE, IIT Bombay, "Derivation" of the Laplace Transform, 28 February 2012.

Mr. Michel Danino, Expert, 'Indian Civilization', 'Cultural Specificities in The History of Indian Science', 15 March 2012.

Dr. Rakesh Kumar, President of IEEE Solid Circuits Society, "Semiconductor Industry Trends – Challenges and Opportunities", 26 July 2012.



GIS Workshop Participants : June 2012

FACULTY & STAFF: AWARDS & PROFESSIONAL ACTIVITIES

The faculty and staff continued to be actively involved in international, national, state and local level professional activities and made significant contributions at all levels. They also won several awards, received numerous honours and fellowships, and presented a large number of invited talks all over the country, and also abroad. Below is a listing of the major recognitions and activities of the faculty and staff of the Institute.

AWARDS/HONOURS

Prof. Prabhat Ranjan

“**Bihar Gaurav Samman**” given by Mr Narendra Modi, CM, Gujarat during Bihar Shatabdi Samaroh on 29 July 2012 for contribution to Science and Technology

Prof. Ranendu Ghosh

Team Excellence Award by Indian Space Research Organisation, Government of India, Department of Space, In recognition of his contribution to the “Village Resource Centre (VRC) Programme”

Prof. Sanjay Chaudhary

Gujarat Sahitya Academy awarded second prize to the book ‘*Girnar*’ under ‘Essays and Travelogue’ category



Prof Sanjay Chaudhary
receiving Gujarat Sahitya Academy Award



Prof Ranendu Ghosh
receiving ISRO Award

OTHER ACHIEVEMENTS

Prof. Amit Bhatt

Cadence Low power design flow implementation for processors

Prof. Ganesh Devy

Conducted a unique nation-wide survey of Indian languages, covering 27 States and Union Territories - Chairperson, The People's Linguistic Survey of India

Prof. Girja Sharan

Designed and installed a community solar cooker unit at SEWA office Radhanpur

Arid area greenhouse cropping trials, Kothara, Kutch, Gujarat [Sponsored by Sustainable Technology Centre]

Dew harvesting Technology, Kothara, Kutch, Gujarat [Sponsored by Sustainable Technology Centre]

Prof. Subhajit Sen

VLSI chip design : Chip Design on Sample-Hold Amplifier submitted for fabrication to Europractice using 0.18 micron CMOS technology was tested and found to be working functionally. Detailed testing of the Chip is under progress - Project funded by Dept. of Science & Technology- SERC

HONORARY WORK/POSITIONS HELD ON PROFESSIONAL BODIES

Prof. S. C. Sahasrabudhe

Member, Review Committee, "Next Generation Networks Systems and Services", Phase I, India-UK Advanced Technology Centre (IU-ATC), IIT Madras

Member, Panel Committee, India-UK Advanced Technology Centre (IU-ATC), British High Commission, New Delhi

Member, Panel Committee, "The Sonar Signal Behaviour Panel meeting", Naval Physical & Oceanographic Laboratories, Kochi, Kerala

Chairman, Peer Committee, National Board of Accreditation, Delegation visit to College Of Engineering Guindy Campus, Anna University, Chennai

Member, Core Committee, Bharti Airtel IITD Center for Excellence in Telecommunication, IIT Delhi

Member, Panel Meeting, "Next Generation Networks Systems and Services", IUATC Project, British High Commission, New Delhi

1st World Summit on Accreditation (participant) held in New Delhi

External Expert, DRDO, Delhi, Hyderabad, Bangalore

Member, Selection Committee, IIT Delhi

Member, CERC Board, Consumer Education & Research Centre, Ahmedabad

Member, National Board of Accreditation, Delegation Visit to Kalinga Institute of Industrial Technology, Bhubaneswar

Member, Board, GTL Mumbai

Member, Board, Visvesvaraya National Institute of Technology, Nagpur

Member, Recruitment and Assessment Centre (DRDO), New Delhi

Member, NEI Gandhinagar

External Expert, National Board of Accreditation, Hyderabad

Member, Faculty Selection Committee, The LNM Institute of Information Technology, Jaipur

Prof. Amit Bhatt

Member, Working Group on Innovation, International Telecommunication Union (ITU)

Prof. Anish Mathuria

Member, PRSG (Project Review and Steering Group), DIT, Govt. of India

PhD Thesis Examiner (External), IIT Guwahati

Prof. Anjan Ghosh

Member, Board of Studies (Electronics and Communication Engineering), Nirma University, Ahmedabad,

Chapter Chair (Educational Activities), IEEE Gujarat

Prof. Asim Banerjee

Member of Jury (PG Students Projects), National Institute of Design (NID) Gandhinagar and Ahmedabad.

Member, Board of Studies, Nirma University

Member, Faculty of Engineering, Nirma University

Member, Board of Studies, UV Patel College of Engineering, Ganpat University, Mehsana

Member, Faculty of Engineering (Computer Science & Engineering), UV Patel College of Engineering, Ganpat University, Mehsana

Member, RPS Committee, PhD Students (Computer Science & Engineering), SVNIT, Surat.

Examiner, PhD Student (Electronics & Communication Engineering), SVNIT, Surat.

Prof. B. N. Hiremath

Member, Advisory Board, Jaipur Rugs Foundation, Jaipur, Rajasthan

Prof. Deepak Ghodgaonkar

Chair, IEEE Gujarat Section, 2011-12

Examiner, ME, Gujarat Technological University, Ahmedabad, July 2012

Prof. Ganesh Devy

Mentor, Bhasha Research and Publication Centre, Baroda.

Prof. Mehul Raval

Member, Board of Studies (Electronics, Computer Engineering), Veer Narmad South Gujarat University, Surat

Member, Board of Studies (Computer Engineering), R K University, Rajkot, Gujarat.

Secretary, IEEE Gujarat Section

Student Activity Chair, IEEE Gujarat Section

PhD Progress Review Committee, Kadi Vishwavidhyala, Gandhinagar

Research Doctoral Committee, GTU, Ahmedabad

PhD Interview Committee, Physics Department, Veer Narmad South Gujarat University, Surat

Prof. Prabhat Ranjan

Panelist, Workshop on Challenges and Solutions in Bridging the GAP of Skilled HR in ESDM, Dept of Information Technology, Govt of India, Delhi, March 2012

Panelist, Strengthening Educational and Training Institutions, Global Summit on Changing Bihar : Forging Partnerships for Development, Patna, February 2012

Organizer and Speaker, Sensor Networks – Design to Deployment, National Convention of Computer Society of India (CSI-2011) Workshop, Ahmedabad, December 2011

Chief Guest, Creanne Memorial School, Gaya, November 2011

Prof. Radha Parikh

Board Member, Rabbani Educational Trust, Gwalior

Prof. Rahul Dubey

Chapter Chair, IEEE Gujarat (joint chapter of Industrial Applications Society, Industrial Electronics and Power Electronics Society)

Member, Board of Studies (Instrumentation & Control Engineering), Nirma University, Ahmedabad

Member, Expert Committee, Sardar Sarovar Canal Automation Project

Prof. Sanjay Chaudhary

Chair, Computer Society Chapter of IEEE Gujarat Section, 2010-2012

Examiner, PhD Thesis, Dept of Computer Science, University of Pune

Reviewer, Project Proposals, NRDMS, Dept of Science and Technology, Govt of India

Invited Member, Research Council, Charotar University of Science and Technology

Invited Member, Faculty Board, Charotar University of Science and Technology

Prof. Sanjeev Gupta

Member, Board of Studies, SATCOM (Satellite Communications), Centre for Space Science and Technology Education (UN-Asia-Pacific Region), IIRS Campus, Dehradun (HQ) & SAC Campus, Ahmedabad

Member, Advisory Committee of Gujarat Technological University (GTU) for the establishment of Centre for Mobile Computing and Wireless Technologies

External Expert, Departmental Promotion Committee (DPC), Scientist/Engineer SC/SD, Space Applications Centre (ISRO, Dept of Space, Govt. of India), Ahmedabad

Coordinator, Research & Academic Activities, Space Applications Centre (ISRO, Dept of Space, Govt. of India), Ahmedabad

Member, "Antenna Test and Measurement Association" (ATMA)
Member, Agilent's Test Advisory Panel
Member, Board of Studies (BOS), Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat
External Expert, Faculty Selection Committee, Institute of Technology, Nirma University, Ahmedabad
External Expert, Research Progress Committee (RPC), Faculty of Doctoral Studies and Research, Nirma University, Ahmedabad.
External Expert, Faculty Selection Committee, Marwadi Education Foundation's Group of Institutions, Rajkot.
Communication Labs, Institute of Technology, Nirma University, Ahmedabad,
External Subject Expert, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat
Member, Advisory Committee (Centre for Mobile Computing and Wireless Technologies), Gujarat Technological University (GTU), Ahmedabad
External Examiner, MTech Theses, Gujarat Technological University (GTU), Ahmedabad

Mr. Satish Deshpande

Member, Working Group on Census, Content Creation & Community Information Centres : National Mission for Libraries (Ministry of Culture, Govt of India)
Executive Committee Member, ADINET (Ahmedabad Library Network)

Prof. V. Sunitha

Member, Board of Studies (Mathematics), Pandit Deendayal Petroleum University, Gandhinagar

Prof. Vijaykumar Chakka

Member, Academic Council and Board of Studies (BOS), Ganpat University, Mehasana

Prof. Vishvajit Pandya

Expert, Tribal Welfare of the Andaman and Nicobar Islands, Govt of India

FELLOWSHIPS/VISITING SCHOLAR

Prof. Jaideep Mulherkar

Visiting Researcher, University of California, Davis, June 2012

Prof. Laxminarayana Pillutla

Visiting Researcher, Dept of Electrical Engineering, IIT Bombay, May-June 2012

Prof. Sourish Dasgupta

University of Missouri – Kansas City, USA (Research Collaboration Visit) – Summer 2012

JOURNAL EDITORSHIP

Prof. Hemant Patil

Member, Editorial Board, Engineering Letters, International Journal

Editor, Special Issue on Speaker Recognition, International Journal of Speech Technology (IJST), Springer, Jan- Feb 2012

Prof. Sanjeev Gupta

Member, Editorial Board, International Journal on Science and Technology

Member, Editorial Board, International Journal on Advanced Communication Technology, (IJSAT)

Prof. Suman Mitra

Associated Editor, International Journal of Image and Graphics, World Scientific

PUBLICATION REVIEWS

Book Chapters

Prof. Sanjeev Gupta

Manuscript Review (three chapters) "Communication Systems", *Tata Mc-Graw Hill Publishing*

Journal Papers

Prof. Alka Parikh

International Journal of Rural Management, *Sage Publication*

Prof. Anish Mathuria

Journal of Mathematical Cryptology, *Walter de Gruyter (IM)*

Prof. Anjan Ghosh

Optical Engineering, *SPIE*

Applied Optics, *Optical Society of America*

IET Circuits and Systems, *IET*

IET Communications, *IET*

Prof. Ghodgaonkar, Deepak

IEEE Transactions, Instrumentation and Measurement (IM), *IEEE*

Prof. Girja Sharan

Journal of Hydrology, *Elsevier*

Food Chain

Energy Conversion and Management, *Elsevier*

International Journal for Service Learning in Engineering, *IJSLE*

Atmospheric Science, *American Meteorological Society, USA*

Prof. Hemant Patil

International Journal of Speech Technology (IJST), *Springer Verlag, USA.*

Prof. Manik Lal Das

IEEE Communications Letters, *IEEE*

Security and Communication Networks, *Wiley*

Cryptologia, *Taylor & Francis*

Prof. Mazad Zaveri

Arabian Journal for Science and Engineering, *King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, Springer Publication*

IEEE Transactions on Nanotechnology, *IEEE*

Prof. Mehul Raval

International Journal of Tomography & Statistics (IJTS), *CESER publications*

Prof. Minal Bhise

Knowledge and Information Systems (KAIS), *Springer*

Prof. Sanjay Chaudhary

Future Generation Computer Systems, *Elsevier*

IEEE Communications Letters, *IEEE*

Journal of Parallel and Distributed Computing, *Elsevier*

International Journal of Semantic Web and Information Systems, *IGI Global*

Journal on Distributed and Parallel Databases, *Springer*

Prof. Sanjay Srivastava

IEEE Transactions on Aerospace & Electronic Systems, *IEEE*

Prof. Sanjeev Gupta

Journal of Electromagnetic Waves and Applications (JEMWA), *Taylor & Francis*
Progress in Electromagnetic Research, *PIER, USA*
IET Circuits, Devices and Systems Journal, *IET*
Indian Journal of Physics, *Springer*
Journal of the Indian Institute of Science, *IISC*
Iranian Journal of Electrical and Computer Engineering, *IJECE*
International Journal on Science and Technology, *IJSAT*
ICTACT Journal of Communication Technology (IJCT), *ICT Academy of Tamil Nadu*

Prof. Srikrishnan Divakaran

Discrete Applied Mathematics, *Elsevier*

Prof. Vijaykumar Chakka

IEEE Wireless Communications, *IEEE*
IET Communications, *IET*
IEEE Vehicular Technology, *IEEE*

Conference Papers**Prof. Anjan Ghosh**

3rd Nirma University International Conference on Engineering, NUICONE 2012
1st IEEE Emerging Trends in Electronics, Communication and Networking, ET2ECN 2012

Prof. Asim Banerjee

National Conference on Communication (NCC) 2012
National Conference on Emerging Trends and Applications in Computer Science (NCETACS-2012)
Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP) 2012
International Conference on Current Trends in Technology (NUICONE) 2012

Prof. Ghodgaonkar, Deepak

2nd International Conference on Current Trends in Technology (NUICONE 2011), 8-10 December 2011, Nirma University, Ahmedabad

Prof. Manik Lal Das

Member, Program Committee, Workshop on the Security of the Internet of Things (SecIoT'11), Dalian (China), 19 October 2011

Prof. Mehul S. Raval

2nd International Conference on Computer and Communication Technology (ICCCCT-2011), MNNIT, Allahabad, 15-17 September 2011
International Conference on Signal Processing, Computing and Control, Jaypee University of Information Technology, Waknaghat, 15-17 March 2012
International Conference on Soft Computing for Problem Solving, IIT Roorkee, 20-22 December 2011
International Conference on Signal Processing and Communications - 2012, IISC Bangalore, April 2012
2nd World Congress on Information and Communication Technologies, Trivandrum, India, November 2012
National Conference on Machine Vision and Image Processing, Pune, India, 7-9 December 2011

Prof. Sanjay Chaudhary

9th IEEE SCC 2012 International Conference on Service Computing, Honolulu, Hawaii, USA, 24-29 June 2012

Member, Program Committee, International Conference on Communication Systems and Network Technology, 10-14 May 2012, Rajkot, India

World Congress on Information and Communication Technologies (WICT 2011), Innovating ICT for Social Revolutions, Mumbai, India, 11-14 December 2011

14th International Conference on Principles and Practice of Multi-Agent Systems, Wollongong, Australia, 16-18 November 2011

4th International Conference on Contemporary Computing (IC3), JPIT University, Noida, 8-10 August 2011

Prof. Sanjeev Gupta

Second Multi-Disciplinary International Conference on Current Trends in Technology (NUICONE 2011), Institute of Technology, Nirma University, Ahmedabad, December 2011

IEEE First International Conference on Emerging Trends in Electronics, Communication and Networking (ETECN-2012), Department of Electronics Engineering, SVNIT, Surat

Prof. Subhajit Sen

International Symposium on Electronic System Design for the Analog & Mixed-signal Design Track, December 2011, Kochi

Prof. Vijaykumar Chakka

2nd International Conference on Computer and Communication Technology (ICCT-2011), 15-17 September 2011

INVITED LECTURES/TALKS/COURSES

Prof. S. C. Sahasrabudhe

“Next Generation Networks” Devi Ahilya University, Indore, 27 January 2012

“Technical Issues on Internet Access” Consumer International, Kaula Lampur on behalf of CERC, Ahmedabad, 9 March 2012

“Recent Trends of Computer Technology in Academia”, International Conference, ICRTCTA 2012, Udaipur, 21 April 2012

Open Silicon, Bangalore, 9 July 2012

“Promoting PhD Programs”, Space Application Centre, Ahmedabad, 20 July 2012

Prof. Alka Parikh

“Gender and Food Security”, Women’s Studies Centre, University of Pune, 11 August 2011

“Policy Environment for Local Economic Development”, EDI, Ahmedabad for ITEC program (meant for International Government Officers) for Local Economic Development, 15 December 2011

Prof. Amit Bhatt

Architecture war, Bangalore R&D Group, Cadence and Qualcomm R&D Group, 9 October 2012
ITRS Roadmap and its impact on processor design, BLR Group, Cadence and Qualcomm R&D Group, 7 October 2011

Fundamentals of Processor Architecture, BLR Whitefield Group, Cadence and Qualcomm R&D Group, 11 December 2011

Advances in Processor Architecture, BLR DD Group, Cadence and Qualcomm R&D Group, 12 December 2011

Advances in Processor Architecture, Cadence and Qualcomm R&D Group, Hyderabad, 6 March 2012

ARM architecture, BLR Whitefield Group, Cadence and Qualcomm R&D Group, 8 March 2012

Prof. Anish Mathuria

“How attackers exploit program input”, IFIP WG11.11 Winter School on Trust Management in ICT, Surat, 7 February 2012

“Multiple Root CAs in Browsers Considered Harmful”, IFIP WG11.11, Winter School on Trust Management in ICT, Surat, 8 February 2012

Prof. Anjan Ghosh

“Photonics and Its Applications”, IEEE Day Celebrations, IEEE Gujarat Section, November 2011
“Sensors and Their Applications”, Short Course on Embedded Systems, R.K.University, Rajkot, December 2011
“Optical Fiber Networks”, Workshop on Next Generation Networks, Institute of Engineering and Technology, Devi Ahilya University, Indore, January 2012
“Free Space Optical Communication”, Department of Electrical Engineering, Nirma University, March 2012.

Prof. Asim Banerjee

“Software Engineering”, Ganpat University, 27 June 2012
“Medical Imaging Modalities”, Ganpat University, Gandhinagar, 18 June 2012
“Software Engineering”, Gandhinagar Institute of Technology, Gandhinagar, 3-7 July 2012

Prof. B. N. Hiremath

“Pro-Poor Institutional Approaches for Micro Enterprise Development: Concept Approach and Methodology”, at Entrepreneurship Development Institute, Ahmedabad, 6 October 2011
“Responding to Monitoring and Evaluation Results and Follow-up Action Monitoring & Evaluation Workshop” NABARD, 22 August 2011

Prof. Girja Sharan

“Systems Modeling and Simulation”, 15 sessions at Adani Institute of Infrastructure Management, December 2011
“Renewable Energy”, 15 sessions at Adani Institute of Infrastructure Management, May-June 2012

Prof. Hemant Patil

“Introduction to Digital Signal Processing,” Atmiya Institute of Technology and Science, Rajkot, 7 August 2011
“Digital Signal Processing”, B.H.Gardi College of Engineering and Technology, Rajkot, 30 September - 1 October 2011
“Overview of Digital Signal Processing”, R. K.University, Rajkot, 24 September 2011
“Speaker Verification: Development and Application”, Workshop at IIT Guwahati, 13-17 February 2012
“Global Maritime Security and Anti-Piracy Conference”, GNLU, Gandhinagar, 26-27 November 2011

Prof. Laxminarayan Pillutla

“A Price-based Decentralized Rate Selection for IEEE 802.11 WLANs”, IIT Delhi and IIT Hyderabad, 14 September & 22 September 2011

Prof. Mazad Zaveri

“Digital Logic Design using Verilog” at The LNM Institute of Information Technology (LNMIIT), Jaipur, 12 April 2012

Prof. Mehul S. Raval

“Image tampering detection using compressive sensing based watermarking scheme”, National Conference on Machine Vision and Image Processing, College of Engineering, Pune, 9 December 2011
“Compressive Sensing”, GTU Research week, Gujarat Technological University, Ahmedabad, 16 March 2012
“Compressive Sensing : Idea of simultaneous sampling and compressing”, Emerging Vistas of Technology in 21st Century, Parul Institute of Engineering & Technology, Ahmedabad, 14 April 2011

“Compressive Sensing : Idea of simultaneous sampling and compressing”, M.Tech. Research Week, ADIT, V V Nagar, 15 June 2012

Prof. Prabhat Ranjan

“Development of Body, Brainwave and Touch sensor-based Communication and Environment Control System for Severely Disabled” NetHealth Workshop, as part of 5th International Conference on ‘COMmunication System and NETworkS’ (COMSNETS 2013), Bangalore

“Real Life Application of Sensor Network, Recent Trends in Embedded System Design”, State Level Seminar, SSES Group of Institutions, Mehsana, March 2012

“Efforts, Opportunities and Bottlenecks in WSN Applications – Wildlife”, Wireless Communication and Sensor Networks (WCSN), Panna, India, December 2011

“Using Sensor Network in Healthcare”, Wireless Communication and Sensor Networks (WCSN), Panna, India, December 2011

“GPS Applications to Wildlife Tracking”, 5th SERC School on “GPS Applications and Atmospheric Constraints”, Osmania University, Hyderabad, June 2012

“Design and Development of Sensor network-based Applications”, Expert Speaker, Nirma University, Ahmedabad, September 2011

Prasenjit Majumder

“Information Retrieval in Gujarati” Gujarati Sahitya Parishad, Ahmedabad, January 2012

Prof. Radha Parikh

“Sixty years of freedom?”, International Seminar on ‘Journey of Women Empowerment : Miles to Go’, Gujarat National Law University, Gandhinagar, 24-25 March 2012

“English Language Immersion Workshop for Teachers”, Brilliant Star School, Udaipur, Tripura, 24-28 October 2012

“Interview Skills for Engineering Students”, NIT, Agartala, Tripura, 29 October 2011

Prof. Rahul Dubey

“DSP based embedded systems”, Short Term Course, Nirma University, May 2012

“Industrial Drives and Controls” IIT Gandhinagar, January-April 2012.

“FPGA based Design Course”, Ganpat University, Mehsana

Prof. Sanjay Chaudhary

“Cloud Computing and Development of IaaS, PaaS and SaaS” at Nirma University, Short Term Training Program on “Advances in High Performance, Autonomic and Cloud Computing”, 3 July 2012

“Use of Participatory GIS in Urban Planning” [Panelist], India Conference on Geospatial Technologies And Applications (ICGTA-12) organized by GISE Lab, IIT Bombay, India 12-13 April 2012

“Cloud Computing: Research Topics” at Workshop in India on ‘Grid and Cloud Computing’ organized by Dept. of Physics, Indian Institute of Technology Bombay, 2-4 April 2012

“Cloud Computing” at the National Conference on “Strategies for Managing Libraries in the Future” jointly organized by Indian Institute of Management, Ahmedabad and INFLIBNET Centre, Ahmedabad, 7 December 2011

“Cloud Computing”, 46th Annual National Convention of Computer Society of India, 1 December 2011

Prof. Sanjay Srivastava

“Wireless Sensor Networks: Applications, Protocols, Simulation”, 2nd International Conference on Current Trends in Technology (NUICON 2011), Nirma University 8-10 December, 2011

“Security Aspects of Protocol Design for Wireless Sensor Networks”, Workshop on Network and Cloud Computing, MEFGI Rajkot, 21 July 2012

Prof. Sanjeev Gupta

Adjunct Faculty at IIT Gandhinagar (EM Waves) (Communication Lab) August-November 2011
“Microwave Systems”, Atmiya Institute of Technology and Science (AITS), Rajkot, 6 August 2011
“RF/Microwave Applications”, RK University, Rajkot, 10 September 2011

“Time-Varying Fields and Maxwell Equations”, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat, 28 September 2011

“Fundamentals of Electromagnetics and Microstrip Antennas” at ISTE approved Short Term Training Programme (STTP) on “Recent Trends in Antenna Design”, Institute of Technology, Nirma University, Ahmedabad, 26-30 December 2011

“Challenges in RF and Wireless Communication System Design” at National Conference on Advances in Engineering and Technology, sponsored by Gujarat Council of Science and Technology (GUJCOST), Kalol Institute of Technology and Research Centre (KITRC), Kalol, Gujarat, 9-10 November 2011

“Introduction to Microstrip Antenna Technology”, Short Term Faculty Training Programme, Institute of Technology, Nirma University, 2-14 July 2012

Prof. Srikrishnan Divakaran

“Introduction to Randomized Algorithms”, Workshop on Graph and Geometric Algorithms, DA-IICT, Gandhinagar, 14-17 March 2012

“Fractional Random Walks with Applications in Bio-informatics”, Institute of Bioinformatics & Applied Biotechnology (IBAB), Bangalore, 7 June 2012

Prof. Sourish Dasgupta

“REST Architecture V/s SOAP”, 46th Annual National Convention - CSI 2011, ICT4U, IEEE Computer Society of India, Ahmedabad Management Association, Ahmedabad, 1-3 December 2011

Prof. Vijaykumar Chakka

“Digital Signal Processing” at IIT Gandhinagar from December 2011 – May 2012

CONFERENCE/WORKSHOP SESSION CHAIR/ORGANISED**Prof. Deepak Ghodagonkar**

“Network Simulation-NS2” WSN-2011 Workshop, DA-IICT, Gandhinagar, 6-8 January 2012

Prof. Hemant Patil

Session Co- Chair, “Speech, Audio, Video and Image Processing using Artificial Intelligence”, 5th Indian International Conference on Artificial Intelligence, IICAI'11, Tumkur, India, 14-16 December 2011

“Image and Speech Processing (WISP)”, IIIT Hyderabad, India, 16 December 2011

“Speaker Verification: Development and Application”, Department of Technology, IIT Guwahati, 13-17 February 2012

“Global Maritime Security and Anti-Piracy Conference”, GNLU, Gandhinagar, 26-27 November 2011

“Signal Processing and Communications”, SPCOM'12, IISc, Bangalore, India, 22-25 July 2012

Prof. Laxminarayana Pillutla

“Signal Processing, Communications and Networking”, JTG Summer School 2012, IIT Bombay, 29 May - 1 June 2012

Prof. Mazad Zaveri

“Design of Analog CMOS Circuits”, Network of Engineering Institutions Workshop at DA-IICT, Gandhinagar, 11-22 June 2012

Prof. Mehul Raval

“Image Processing Track, National Conference on Machine Vision and Image Processing”, College of Engineering, Pune, 9 December 2011

“Image and Signal Processing Track, Emerging Vistas of Technology in 21st Century”, GTU, Ahmedabad, 14 April 2012

“Signal Processing Track”, GTU Research Week, GTU, Ahmedabad, 16 March 2012

Prof. Sanjay Chaudhary

Chair, Tutorials, 46th Annual National Convention of Computer Society of India, 1-3 December 2011

“Cloud Computing”, at LDRP Institute of Research and Technology, Gandhinagar, 23 September 2011

Prof. Sanjeev Gupta

Session Chair, National Conference on Advances in Engineering and Technology, sponsored by Gujarat Council of Science and Technology (GUJCOST), Kalol Institute of Technology and Research Centre (KITRC), Kalol, Gujarat, 9-10 November 2011

“Revolutionary RF and Microwave Design Technology”, organized by AWR Corporation, USA and ICON Design Automation Pvt. Ltd, Bengaluru, at Ahmedabad on 17 January 2012

“Emerging Wireless Systems”, organized by Gujarat Technological University (GTU) and Automation System Engineers Pvt. Ltd. (ASEPL), Ahmedabad, 21 June 2012

Prof. V. Sunitha

ISI-IMSc Summer School on Network Optimization and Security, Institute of Mathematical Sciences, Chennai, 21-31 May 2012

CONFERENCE PROGRAM COMMITTEE

Prof. Amit Bhatt

Member, Program Committee, International Telecommunication Society of India Conference, Delhi, February 2012

Prof. Anish Mathuria

Seventh International Conference on Information System Security (ICISS), Kolkata, 15-19 December 2011

Sixth IFIP International Conference on Trust Management (IFIPTM), Surat, 21-25, May 2012

Prof. Asim Banerjee

International Conference on Current Trends in Technology (NUICONE) 2011, Nirma University, 8-10 December 2011

Prof. Ganesh Devy

Bhasha Vasudha, Global Conference of Languages of the Earth (conceptualiser & convener), (more than 900 participants from all continents), Baroda, 8-9 January 2012

Prof. Ghodgaonkar, Deepak

Conference Co-Chair, 2nd International Conference on Current Trends in Technology (NUICONE 2011), Nirma University, Ahmedabad, 8-10 December 2011

Prof. Hemant Patil

Image and Speech Processing (WISP), IIT Hyderabad, India, 17 December 2011

5th Indian International Conference on Artificial Intelligence, IICAI Tumkur, India, 14-16 December 2011

Prof. Jaideep Mulherkar

Workshop on Functional Analysis of Quantum information theory, IMSc Chennai, 26 December – 6 January 2012

Prof. Maniklal Das

Workshop on the Security of the Internet of Things (DecIoT'11), Dalian, China, 19 October 2011

Prof. Mehul Raval

2nd International Conference on Computer and Communication Technology (ICCCT -2011), MNNIT, Allahabad, 15-17 September 2011

International Conference on Signal Processing, Computing and Control, Jaypee University of Information Technology, 15-17 March 2012

National Conference on Machine Vision and Image Processing, Pune, India, 7-9 December 2011

Special Session on Speech, Audio, Video, and Image Processing using AI, 5th Indian International Conference on Artificial Intelligence, Bangalore, India, 14-16 December 2011

International Conference on Soft Computing for Problem Solving, IIT Roorkee, 20-22 December 2011

Prof. Sanjay Chaudhary

9th IEEE SCC 2012 International Conference on Service Computing, Honolulu, Hawaii, USA, 24-29 June 2012

International Conference on Communication Systems and Network Technology, Rajkot, India, 10-14 May 2012

World Congress on Information and Communication Technologies (WICT 2011), Innovating ICT for Social Revolutions, Mumbai, India, 11-14 December 2011

14th International Conference on Principles and Practice of Multi-Agent Systems, Wollongong, Australia, 16-18 November 2011

4th International Conference on Contemporary Computing (IC3), JPIT University, Noida, 8-10 August 2011

8th IEEE 2011 International Conference on Services Computing (SCC 2011), Washington, DC

Prof. Sanjeev Gupta

National Advisory Committee Member, National Conference on Recent Trends in Microwave Techniques and Applications (Microwave-2012), Jaipur, 30 July – 1 August 2012

Advisory Board Member, ISTE approved Short Term Training Programme on “Recent Trends in Antenna Design”, Institute of Technology, Nirma University, Ahmedabad, 26-30 December 2011

National Advisory Committee Member, National Conference on Technology and Management (NCTM-2012), Sankalchand Patel College of Engineering, Visnagar, District Mehsana, Gujarat, 20- 21 January 2012

Prof. Sourish Dasgupta

3rd International Conference on Services in Emerging Markets, SRIL-India ICSEM 2012, Infosys Campus, Mysore, India, 12-15 December 2012

CONSULTANCY WORK**Prof. Alka Parikh**

Consultant, Demand and Status of Health Micro Insurance in Vidarbha, Sir Ratan Tata Trust.

Consultant, Rapid Evaluation Study on Feasibility of Mutual Insurance Schemes in Rural InstitutionsGIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit), India

Mr. Satish Deshpande

Chief Design Consultant & Advisor, new Library & Info Centre for Sachivalaya Staff at Info Commissioner's Office (Govt of Gujarat), Gandhinagar

Prof. Vishvajit Pandya

Policy Adviser, Primitive Tribal Groups, Andaman Nicobar Islands

Project Director, Assessment & Impact of Change on Jarawas and SHOMPENS Communities, Andaman Nicobar Islands Tribal Groups

VISIT TO INSTITUTIONS/ INDUSTRIES

Prof. Hemant Patil

3rd IDH-Hampi Project Review-visit, 17 September 2011, National Institute of Advanced Studies (NIAS), IISc Bangalore Campus

Prof. Mukesh Tiwari

CSIR Centre for Mathematical Modelling and Computer Simulation, Bangalore on 1-16 December 2011

Prof. Sanjay Chaudhary

Oracle Headquarters, Redwood Shores, San Francisco, USA, 16-18 November 2011 to interact with Sr.Executives of Oracle Research & Development team to exchange thoughts, inputs, and views regarding information technology adoption

Prof. Sourish Dasgupta

Research Collaboration Visit, University of Missouri – Kansas City, 6 May-30 June 2012
Professional Networking, University of Florida, USA, 6 May-30 June 2012

Prof. Subhajit Sen

PhD Research Progress Review, Electronics Dept, Dharam Singh Desai University, Nadiad



FACULTY AND STAFF UPDATE

FACULTY

The full-time faculty included 49 regular faculty members and three visiting faculty members. The Institute also had 23 adjunct faculty members who taught specialized courses to the various programs. Complete list (as on 31 July 2012) is available at **Annexure 3**.

New Faculty

Seven new faculty members joined the Institute during the year 2011-12.

1. Dipankar Pal joined on 5 July 2011 as Professor.
2. Sourish Dasgupta joined on 26 November 2011 as Assistant Professor.
3. Aditya Tatu joined on 1 April 2012 as Assistant Professor.
4. Bharani Kollipara joined on 28 June 2012 as Assistant Professor.
5. Ajit Rajwade joined on 11 July 2012 as Assistant Professor.
6. Aditi Nath Sarkar joined on 16 July 2012 as Associate Professor.
7. Gaurav Mishra joined on 16 July 2012 as Assistant Professor.

Faculty Resignations

1. Dipankar Pal, Professor, left w.e.f. 20 October 2011.
2. Chetan Parikh, Professor, left w.e.f. 9 December 2011.
3. Abhinay Pandya, Lecturer, left w.e.f. 31 December 2011.
4. Tridip Suhrud, Professor, left w.e.f. 3 May 2012.
5. Shiv Visvanathan, Professor, left w.e.f. 20 July 2012.

STAFF

DA-IICT has a lean and efficient staff structure, mainly housed in the Administration Building adjacent to the Director's office. The staff is well-qualified and fully equipped with required IT infrastructure. A complete list of the staff members is given in **Annexure 4**.

New Staff

Five new staff members joined the Institute during the year 2011-12.

1. Mr. PNN Nair joined as Deputy Placement Officer on 8 November 2011.
2. Mr. Sawankumar Sachaniya joined as Hostel Supervisor on 15 November 2011.
3. Mr. Satish Deshpande joined as Consulting Librarian on 23 January 2012.
4. Ms. Sangita Karia joined as Secretary in Registrar's Office on 1 April 2012.
5. Ms. Anjali Kulshrestha joined as Placement and CEP Officer on 23 April 2012.

Staff Resignations

1. Mr. Mukesh Sharma, Placement and CEP Officer (w.e.f. 30 September 2011).
2. Mr. B. Suresh, Sr. Prof. Assistant (w.e.f. 21 December 2011).
3. Mr. Trevor Michael, Secretary to Registrar (w.e.f. 22 December 2011).
4. Mr. P K Chopra, Executive Registrar (w.e.f. 17 April 2012).
5. Mr. PNN Nair, Deputy Placement Officer (w.e.f. 11 May 2012).



STUDENT ACTIVITIES AND ACHIEVEMENTS

Co-curricular activities form an important component of student life at DA-IICT. As in the past, the campus continued to be a vibrant and lively place, with sports, cultural and other activities happening throughout the year. Students also distinguished themselves in a diversity of international and national level competitions, and won several prizes, or made it to the finalist teams, and made the name of DA-IICT more prominent among the top engineering institutions in the country.

Synapse-2012

Synapse, the Annual Techno-Cultural Festival of DA-IICT, was organized on 16-19 February 2012. Synapse-2012 proved to be the biggest student event held in the history of the Institute. To kick off 'Synapse', 5 and 8 km 'Youth Run' followed by a 'Youth Seminar' were organized on 22 January 2012 which witnessed over 1400 participants running together to support various causes the student community has endeavored to make a difference in. NGO's, schools, other institutes and faculty members joined hands together to participate in the initiative. The events at Synapse were designed to inspire solutions in which technology, culture, humanitarianism, and viability symbiotically coexist. With systematic and generous support from the corporate community and overwhelming participation of students from all over India, it can definitely be said that the festival was successful as the spirit of cooperation, involvement, publicity, sponsorship, innovation, creativity, fusion, rhythm, aesthetics, fun and frolic, drama, fashion – were all at their peak during Synapse-2012. The plethora of technical and cultural events that Synapse-2012 showcased enthralled audiences of all kinds – from those interested in the arts, to the geeks who only enjoy life in front of a computer screen.

Sports

Sports activities during the year saw a significant increase, with the highlights being the hosting of tournaments with other institutes, a wider variety of activities and competitions involving many more students than earlier years, and events that involved faculty, staff and students. An Annual Inter-college Sports Festival "Concours 2011" was also held on 3-6 November 2011 at DA-IICT.

Cultural

The cultural committee continued its tradition of organizing highly successful, and highly attended cultural events on the campus. It aims to bring out talent in the student community in all the possible forms whether its music, dance, theatre, literary skills, sketching or other fine art styles. In order to showcase these talents various competitions like 'Sangeet Sandhya', 'Dance Nite', 'Drama Nite', 'Rangoli', 'Hasya-Kavi Sammelan' were calendared through out the year.

Various festivals and National festivals like Independence Day, Gandhi Jayanti and Republic Day were also celebrated. The Cultural Committee along with the Sambhav Committee visited the blind people at the BPA (Blind Peoples' Association) and spent a joyful day with the special people, and thus marked the end of Independence day on a satisfying note. On Gandhi Jayanti, poetry recitation and a debate on the relevance of Gandhian values in contemporary India were followed by a quiz where participants were made to strain their brain cells and recall those facts about Gandhi that they had read in their school history textbooks.



To enrich the students with various hobbies such as in theatre, dance, instrumental and vocal music, art etc workshops were conducted which act as a platform nurturing budding talent. '**Friday Night Live**', an initiative of the music club in DA-IICT was introduced to encourage the students and provide them with a platform to showcase their talent.

'**Maniere - the night of fashion**' was and remains to be the most anticipated event. Students from all the batches are given an opportunity to bring forth their creative and aesthetic skills when they were subjected to design their costumes on the basis of a particular theme. The theme of this year was 'Gangster' which brought out the hitherto unknown side of each participant's persona.

The musical talent of the students of the Institute was at its best during the much awaited event '**Raaga**'. The musicians proved their mettle against the rest when many prizes were won in the categories of Indian Solo, Indian Group, Western Solo and Western Group. An important addition was the category of '**Bollyrock**' which became the highlight of the show. In another event '**Rang Manch**', the scriptwriters and the dramatists put on their thinking caps and presented wonderful and colourful plays depicting various aspects of India's social and cultural heritage.

Student Clubs

Student Clubs at DA-IICT campus are the medium to channel the bubbling creativity and enormous potential of students. All club activities are for the students, by the students and of the students. Some of the clubs that exist currently in DA-IICT include the Film Club, DA-IICT Theatre Group (DTG), Prayaas, Sambhav, The Press Club, Forward Forum, Quiz Club, Martial Arts Club, Dance Club, Debate Club.

While **Film Club** provides regular entertainment to DA-IICTians in the form of screening of popular cinema, the **DA-IICT Theatre Group (DTG)** has been motivated by the Budhan Theatre Group of Ahmedabad and is focused on producing prosceniums and street plays.

Prayaas has been set up with the vision of 'personal transformation through outreach activities'. It is involved in community service in the form of caring about people with disabilities and other problems.

Sambhav is another social service group that is involved in education and rehabilitation of displaced and de-notified tribal people, in the Ahmedabad area.

The **Press Club** brings out an e-magazine called Entelechy, with sections ranging from global news, to DA-IICT news, to movie, book and music reviews, to poetry, technical articles and debates.

Forward Forum organises lectures and other activities by eminent national and international personalities on campus.

Quiz Club organizes regular quiz events on campus, and encourages students to participate in various quiz competitions around the country.

Martial Arts Club has regular martial arts and yoga classes.

Dance Club - the **Dance Coders**, tries its best to combine the deep-seated passion for the art with dedication and teamwork.

The **Debate Club** has grown remarkably since its inception in 2009. Besides conducting its weekly debates and Intra-college Debate competitions, the club has also organised a Youth Parliament and an Inter-college Parliamentary Debate.

Apart from these non-academic and social activity clubs, few groups sound serious academic. **Electronics Hobby Club (EHC)**, **DA-IICT Linux Users Group (DLUG)** and **IEEE (Institute of Electrical and Electronics Engineers) Student Branch** belong to this category. EHC is a place for playing with electronic circuits and instruments out-of-the-classroom. DLUG has been committed to actively promote the use of Linux and other open source software for strengthening the objective of the worldwide open source movement.

Various other student clubs were active during the year and organized their own events for student groups ranging from a few dozens, to a few hundreds. Notable among these Clubs were **The Aryans** and **The Programming Club**. DA-IICT has a recognized Band, which is named as 'The Faculty'.

DA-IICT is also devoted to the society for noble causes like **blood donation**. The institute organized voluntary blood donation drive with Prathma in August 2011. A record 230 voluntary donations were made.

IEEE Student Branch Activities

IEEE Student Branch provides opportunities to the students to gain relevant knowledge and learn technical skills through experts of ICT and related areas.

Ifest, Annual Technical Festival was organized the on 1-2 October 2011 to bring the budding engineers from all over India to a common platform so that they can share their knowledge with fellow imaginers. This year ifest included seven core events and six fun events. **Ifest 2011** saw a registration of around 170 students, a lot of them from other institutes like PDPU, Nirma University, and also there were 15 students from Udaipur. Eminent speakers at ifest were Mr. Amitabh Shah, Founder of Yuva, Mr. R. K. Dave, Government Advisor for Disaster Management.

NS2 Workshop was organized on 6-8 January 2012 to provide understanding the architecture and working of NS2 and provides hands of training in ns2 to networking researchers from both academia and industry. Eminent speakers at the workshop were. Prof. Tejas Vasavada (ADIT), Prof. N. J. Kothari (DDIT) and Shri. Mohit Tehiliani (NIT, Karnataka)

Arduino Workshop was organized 5 April 2012 to help students to get introduced to the fascinating world of Arduino and see its immense power especially when the ease of coding is concerned, and get a chance to interface it with some common sensors and actuators.

Summer School was organized for the second time by the IEEE Student Branch on 11-24 June 2012. Its main aim was to bring the budding engineers from all over India to a common platform so that they can learn to work with their fellow engineers and at the same time can improve their technical skills. There were two tracks based on which the Summer School was organized – first being the Web Development which covered Advanced JS, JQuery, Advanced CSS, PHP, MySQL, Basic CRUD in PHP MySQL and Web Security areas, and the second was Flash and Game Development which gave Introduction to Flash and Action Script 3, Graphics and Sound Aspect of the Game, Familiarization with the Game Maker. In the end, students were able to make a project and present their projects to win cash prizes. Eminent speakers include Mr. Hemanth Sharma (Adobe India), Mr. Jayesh Gohel (NID Ahmedabad), Mr. Hiren Shah (Net-Square), Mr. Abhijeet Goyal (Nagpash), Mr. Ronal Raval (Khel Online), Mr. Harsha Deep Reddy (ZS Associates), Ms. Sukanya Raval (Aptech Solutions), Mr. Nirav (TCS) and Mr. Swarup Deb (Girgit Studio). This event saw a participation by students of various colleges from all over Gujarat.





Other Activities included weekly sessions on Arduino kits and Embedded Systems, SIG Programming and fortnightly **TechTalks** by students on their experience during internship, other projects etc.

STUDENT ACHIEVEMENTS

Awards

Ankita Mehta, 3rd year BTech student, has bagged the “Outstanding Woman in Engineering Award” conferred by **Women in Engineering (WIE)** Affinity Group of IEEE Student Branch, in association with IEEE Gujarat Section and IEEE Region 10 (Asia and Pacific) WIE. She is also serving as the Google Student Ambassador.

Megha Tak, final year BTech student, was chosen as the “**Outstanding Chapter Chair**” among the 150 student chapters from across the globe.

Mohit Setia and Megha Tak, final year BTech students, were awarded first prize among 19 countries for their outstanding performance at a global competition organized at the IEEE Industry Application Society (IAS) Annual Meeting 2011 held at Las Vegas, Nevada, USA from 7-11 October 2011. They were awarded for their vibrant video on Indian Culture and Tourism titled “India – Our Motherland”. Each of them won \$1,400 under the prestigious **Zucker Travel Award** given by IEEE Education Department for academic and overall excellence.

Mohit Setia and Megha Tak, final year BTech students, were also fully funded to represent Industry Application Society (IAS) Student Chapter from India and present paper titled “Converting Waste heat from Automobiles to Electrical Energy” at International Power Electronics and Motion Control Conference (IPEMC-2012) at Harbin, China in 2-5 June 2012.

Sidharth Kothari, selected as one of the 350 mentors, mentored high school students with Tux4Kids during 2011 Google Code.

Sonali Dubey and Yash Soni, final year BTech students, were selected among the top seven in the country for “**Microsoft Imagine Cup**” for designing a software (as a part of software design competition by Microsoft) to assist and improve the exercise of patients suffering from motor disorder, post stroke syndromes and cerebral palsy.

Seventeen students of DA-IICT were selected from 4,285 applicants from over 100 countries across the world for the prestigious “**Google Summer of Code 2012 internship**”. These interns worked on different projects under GSoC for three months from 21 May and each got a stipend of \$5,000. Those selected are BTech students Yash Shah (first year), Saheb Motiani, Neel Shah, Smit Sanghavi, Rajat Gupta (from second year), Brijesh Pate, Smit Patel, Jigar Raisinghani, Aditya BSRK, Shivaraman Aiyer, Jiten Thakkar, Pankaj Bhambhani, Nityam Vakil, Jainit Purohit (from third year) and Viranch Mehta, Anirudh Subramanian along with Gaurav Arora (from final year).

DA-IICT Google Developers’ Group (GDG) is selected as one of the 271 approved Google Developers Group chapters in 87 countries around the world.

Women in Engineering (WIE) wing of the IEEE Student Branch at DA-IICT won the “2010 IEEE WIE Affinity Group of the Year Award” for the Asia-Pacific Region in September 2011.

R10 EAC support fund of US \$200 was awarded for DA-IICT’s Annual Technical Festival, ifest.

IEEE Student Branch of DA-IICT won 2nd position in “Innovative Student Branch Competition” at IEEE All India Student Congress 2012 held at Bangalore.

DAIICT design opens Microsoft window

Dayananda Yumlembam | TSN



Sonali Dubey

Ahmedabad: A software designed to assist physiotherapy by the students of Dhirubhai Ambani Institute of Information



Yash Sori

Technology (DAIICT) has gathered attention after Microsoft officials



Silicon Institute of Technology

Math workshop at DA-IICT hit among students, faculty

A three-day workshop on application of graph and geometry was held at the institute to encourage research in

Dhwanil Pathak Dave
dhwani.pathak@daigroup.com

The thought of solving math problems is enough to give students nightmares. However, a three-day workshop at Dhirubhai Ambani Institute of Information Technology (DA-IICT) showed the other side of it.



DAIICT prof 'enables' quadriplegic IIM-A grad

Dayananda Yumlembam | INX



...router, thanks to the

DAIICTના સ્ટુડન્ટ્સે બાબુ રાણપુરા પર ફિલ્મ બનાવી

—રવિ અમૈદી

THREE-MONTH LONG HOME INTERNSHIP PROGRAMME WILL EARN STUDENTS \$5,000 FOR THE DURATION

એકોને જણાવવા માટે અમ રિસર્ચ ઇન્ટર્નશિપનાં બાબુએ તે ફિલ્મ બનાવવાનું નક્કી કર્યું હતું. એક વર્ષ માટે મળી જતાં અમે તે બનાવી શક્યા હતાં. અમ્માસની સાથે ફિલ્મ મેકિંગ જેવી શોખની પવનિનો પણ બેસ્ટ રીટેયર્સ થકે તે બનાવવાનો વેતુ... એ તેમને તરફોટરમાં જોયા



DNA Ahmedabad 25 April 2012 Page 2

Google's intern search fetches 17 from DAIICT

DNA Correspondent

Students and faculty members at the institute say this would be highest number of students from DAIICT chosen for the Google Summer of Code internship. According to students, this is a global program - the three-month-long home internship also offers student stipend



other student Smit Patel said, "This is not only provide quality experience but also add weighage to my CV." Dean for students, Prof Sanjeev Gupta, said that students returned with rich experience from the internship last year. "It is learning experience for them. Once they

IEEE Student Branch of DA-IICT won Best Student Branch 2011 award given by IEEE Gujarat section.

IAS (Industry Applications Society) Student Branch was formed at DA-IICT in December 2011, with a starting branch fund of \$500.

Ashish Phophalia, PhD Scholar, won the Best Paper Award in "National Conference on Future Trends in Information and Communication Technology and Applications (NCICT-2011)" held in September 2011.

Maulik C. Madhavi received IAPR (International Association for Pattern Recognition) Travel Scholarship for presenting a joint paper, "Significance of magnitude and phase information via VTEO for humming based biometrics," in International Conference on Biometrics, ICB'12, Delhi, 30 March-1 April 2012.

Fellowships/ Scholarships/ Internships

Raghuvir Songhela was selected for Summer Research Fellowship Programme (SRFP-2012) by Indian Academy of Sciences (IAS), Bangalore). As a part of it, he did his research internship at IIT Delhi in the field of Computer Networks.

Ankita Mehta, 3rd year BTech student, worked as Research and Development Intern with Carnegie Mellon University.

Shubham Jain, PhD Scholar, was selected for fully sponsored Research Internship at Swedish Institute of Computer Science (SICS), Stockholm, Sweden during Summer 2012. He was also selected for "Network Science School in Electrical Engineering and Computer Science" organized by IISc, Bangalore from 2-6 January 2012 and "TCS Excellence in Computer Science Week (TECS Week 2012)" organized by TRDDC, Pune from 9-12 January 2012.

Yash Shah was invited to attend KDE Akademy in Estonia, Europe in July 2012.

Sports, Cultural and Other Achievements

Sharan Shodhan, Tej Popat and Koosh Doctor won Silver medal in Lawn Tennis at IIT Delhi Sports Festival Sportech' 2012 held from 2-5 March 2012.

Jatan Patel won the Most Promising Actor Award in Stage play competition at BITS, Goa Cultural Festival Waves'12.

Zubin Adil Kapadia secured 1st place in Dance at GNLU cultural festival.

Akansha Singh's dance group (comprising of team members Komal Agarwal, Surbhi Prasad, Pavithra Iyer and Nupur Dhvani) stood first in '*Naach*' at Synapse on 17 Feb 2012. The group also stood second in Pentagram in GNLU on 29 March 2012 and was also felicitated by Honorable Chief Minister of Gujarat Shri Narendra Modi in Odissi Samaj on 30 March 2012 for presenting *Mahisasur Mardhini*.

Susnato Lahiri, Jinay Kothari, Piyush Deshmukh, Uday Harne and Nityam Vakil Stood 2nd in Chess at DA-IICT Inter-College Sports Festival Concours 2011.



ALUMNI ACTIVITIES

As part of its ongoing commitment to reach, engage and connect to its graduates, the DA-IICT Alumni Association organised the second Alumni Day at the Institute campus on the 22 January 2012. The day began with a panel discussion on "DA-IICT Alumni Association - and Expectations and Desires". Panelists included the Director, Prof. S. C. Sahasrabudhe, Prof. Samaresh Chatterji, Prof. Sanjay Chaudhary, Mr. Gunjan Juwal (BTech 2003) and Mr. Ankur Singhal (BTech 2008). The panel proceedings were moderated by Prof. Asim Banerjee. This was followed by a round of spontaneous discussions where a number of alumni members present shared their viewpoints on various issues. DA-IICT's Incubation Centre also made a presentation about its activities

A meeting was also held to finalize the structure of the Alumni Association and the organization of its various regional chapters. Representatives were identified for various cities/regions: Mr. Swapnil Khandelwal (NCR), Mr. Gunjan Juyal (Mumbai), Mr. Pushpak Aggarwal (Bengaluru), Mr. Pawan Makadia (Ahmedabad) and Mr. Aditya Vohra (Hyderabad). Each of them was asked to take the initiative to start the Association's activities in their respective cities.

The Alumni day celebrations concluded with a group photograph and a musical programme in the evening.



RESOURCE CENTRE

The Resource Centre (RC) as in the past continued to serve as a hub between the faculty and students on one side and targeted information sources on the other. eResources usage picked up during the year under review, while RC occupancy stats improved substantially. RC collection grew steadily despite of budget constraints and resource-utilization increased (please refer to the Stats Table below). Programmes and events spread throughout the year supported teaching, learning, research and scholarly activities of the Institute. New methods were adopted to update end-users on effective utilization of resources and provided information in structured format to increase awareness. In response to the suggestions, feedback and based on MIS the changes were made in relocating some of the sections that ultimately helped the users to take advantage of the RC infrastructure effectively. Proactive services like Current Contents, Content Page Service, Web-site updates and Newspaper Clippings continued to keep users updated not only in their own disciplines but also in interdisciplinary areas, peripheral knowledge and socio-economic front. RC's emphasis on both Print and Digital Resources helped the users balance learning activity by referring to both types of resources. Good numbers of useful specialized as well as general eResources were brought under one umbrella of RC's website to facilitate users to find information from a single window. Sustaining a proactive, innovative approach in disseminating right, useful and latest information using modern technological tools remained the main objective of the Resource Centre. Some of the significant activities and services carried out during the year under review are given below.

Print and Audio Visual Collection

The RC collection includes books, conference proceedings, reference books, CDs, VCDs, DVDs etc. Following Table presents the additions during the academic year 2011-12.

Additions to Collection

Collection Type	Added in 2011-12	Total as on 31 July 2012
Books	1,093	27,200
Bound Volumes of Journals	116	1,284
Theses and Dissertations	40	320
Audio Visual Resources	94	2,155
Total Collection	1,343	31,514

Printed Books

Faculty helped RC to develop its Printed-Books collection. RC procured 1,093 titles through Faculty Recommendations. Utmost care was taken in ordering and procuring the titles suggested by faculty for their Courses (Course Reserves & Short-term Loans) on a priority. Book Loans, Issues and Visitors details are given in the subsequent tables.

Special Displays

RC continued to arrange Special Topical Displays, mainly of books on the special occasions like World Book Day, World Environment Day, Must Read, Geometreic Algorithms, Mahatma Gandhi, etc which were specially targeted at our Students Community. Appropriate bibliographies were compiled and circulated to promote the use of these Displays.

Print-Journals

In the academic year 2011-12, RC subscribed to 197 print-journals, newspapers & magazines, of which 162 were from the academic disciplines and remaining from interdisciplinary, allied subjects and of general interest. Out of 93 audio-visual resources added during the year, 7 were IEEE Communication Society Tutorials on CDs.

Digital Resources

The following 12 digital resources subscribed during previous years, being core collection to

support institutes academic and research work were renewed for 2011. The usage of Digital Resources is increasing over a period and to quote an example around 22,500 downloads were just from IEEE*Xplore* during the year under review.

- ACM Digital Library
- ASA Digital Library
- AIP and APS Online Journals
- ASABE Technical Library
- IEL Online Library (IEEE*Xplore*)
- indiastat.com
- JSTOR Archive
- LNCS Online Collection
- ITU Recommendations
- Publications from USENIX
- ScienceDirect (Comp. Sc.)
- Springer Online Journals

RC subscribed to over 6000 e-journals through various Online-databases and eServices.

RC Open during the year	360 days / approx 4900 hrs
Total No. of visitors (students, faculty)	76,574

Circulation Services

During 2011-12, over 18,833 documents (mainly books) were borrowed by the users. These documents included books, reference books, current and bound volumes of journals and audio-visual materials. They were mainly circulated among the faculty, students and staff members of the Institute.

Collection Type	Total Loaned in 2011-12
Books	18,535
Bound Volumes & Journals	298
Total Loans	18,833





Resource Sharing (Document Delivery Services)

The Resource Centre has been taking an active part in resource sharing activities with local libraries and the libraries at the national level through ADINET, DELNET and INFLIBNET library networks. Faculty members appreciate RC's Article-Alert and Document Delivery Services. Total 133 Research Journal Articles/Papers which were not readily available with RC, were procured from other sources for our Faculty Members, while we sent out 177 Articles to other Libraries in the network. During the reporting period, the RC borrowed 22 books from the Network for our Faculty while lent out 21 books to other Libraries.

To further support the academic and research activity, RC became a member of Development Library Network (DELNET). This membership entitles an access to all the databases created by this network, Inter Library Loan and Document Delivery Services.

Institutional Membership

Institutional Membership of other professional bodies, Institutions and Consortia play an important role in providing information from the sources not stocked by the RC. The RC renewed the membership of 12 professional bodies, institutions and Consortia and availed the benefits of participation in professional programs. The RC is a member of Ahmedabad Library Network (ADINET), American Society of Agricultural and Biological Engineers (ASABE), Computer Society of India (CSI), Indian National Digital Library in Engineering Science and Technology Consortium (INDEST), International Telecommunication Union (ITU), UGC-Infonet Digital Library Consortium, USENIX: The Advanced Computing Systems Association (ACSA) among others.

Project Reports

The RC has been maintaining a collection of all PhD theses, MTech dissertations and MDes (CD) Projects (both in print and digital formats) submitted by students of DA-IICT. From this year MSc-ICT-ARD dissertations were also added to the Collection. Effort to collect, organize and provide access to all the BTech project reports of the last four batches were successful and now 146 print copies of the Project Reports are added to the Institutional Repository. These reports are now available in both print and digital format for consultation. A separate batch-wise catalogue providing details of each project along with an abstract is now available on the Internet through RC website.

Research Information

To promote and support the Institute's research undertakings, RC continued to put its concerted efforts in tracking and providing updated information relating to "Call for Research Proposals" and "Research Funding Sources". The faculty and researchers have found this service useful in identifying potential projects for funding.

Access to Special Lectures

During reporting period, the RC continued its efforts to collect, organize and provide access to the information relating to all special lectures held in the Institute. These included a collection of Power Point presentations and video recordings of seven lectures delivered by prominent persons. RC is trying to prepare a list with links to presentations and video recordings of all professional events taken place at DA-IICT, through the RC's website.

Preview Room Facility

The RC has a preview room with all required audio-visual facilities, overhead projector, desktop with internet and intranet facility, to view in group, the education materials in support of teaching and learning. This facility is used by both the students and faculty members. Over 85 group viewings were arranged during the year.

Reference and Information Services

To promote the effective use of available resources, the RC continued all the information services introduced in the previous years with updated information. These services were well received by student community. To promote usage of AV resources National Programme on Technology Enhanced Learning (NPTEL) videos were made available through a video streaming facility on campus network. A facility to search this database through keywords and Course-titles was developed by using RC's staff expertise.

Digital Repository of Scholarly Resources (DRSR)

The DRSR initiative, launched last year to collect, organize, preserve, provide access to, and promote dissemination of the scholarly output of DA-IICT Community, was well-received by the faculty and students. The metadata-database of the faculty publications, research papers, journal articles and other professional presentations, serves as a platform to faculty, researchers, and students of the Institute to share their research work with wider community. Currently it hosts close to 1722 entries up to abstract level.

Orientation and Information Literacy Programs

A detailed orientation program to introduce the new entrants to various programs (BTech, Masters & PhD) with the RC collection, facilities and services was held from 18th to 20th July 2012. The sessions were conducted in twelve batches of 75 minutes each, where students take a guided tour of the RC after initial induction presentation.



Self-Study Zone

A Reading-hall of the RC was turned into a Self-Study Zone by adding a few Study Cubicles on an experimental basis. The initiative was welcomed by the students and the plan of providing more such cubicles and electrical-points in the area are underway. Total seating capacity (A & B Wing combined) was enhanced to 160 to take care of pressure during semester-exams by rearranging the sections.

Internship

As part of its regular Internship program for fresh library science graduates, the RC recruited three MLISc graduates in August 2011 for one year and they were offered a monthly stipend. These fresh graduates were given training in all areas of work including handling of digital resources.

Academic Visitors

The following student groups along with their faculty members visited the Resource Centre during the year as a part of their academic requirements.

Institution	No. of visitors	Date
Department of Library & Information Science, Bhavnagar University, Gujarat	27 Students + Faculty	4 February 2012
Department of Library & Information Science, S P University, Vallabh Vidyanagar, Gujarat	32 Students + Faculty	22 February 2012

Staff Training

For efficient delivery of services, domain-centric staff training is needed to upgrade the knowledge and skills of working staff. During 2011-12, the following staff members attended the workshops/seminars.

- T. S. Kumbar, Satish Deshpande, Prasanna Kumar, Saurabh K. Prajapati, A. Rajakumar attended one day seminar on “Networking of Libraries in Gujarat for Resource Sharing” organized by Ahmedabad Library Network (ADINET), INFLIBNET and Ahmedabad Management Association (AMA), Ahmedabad, 27 August 2011.
- Saurabh Prajapati attended a five day National Workshop on “Creation and Management of Digital Collection” organized by INFLIBNET, Ahmedabad from 13-17 February 2012.



INFRASTRUCTURE

DA-IICT has a modern, eco-friendly, fully networked campus with optical fibre cable connectivity between buildings having 100-Mbps Internet bandwidth. It has the state-of-the-art IT infrastructure and computing and communication resources. The campus has three air-cooled lecture theatres, two with a seating capacity of more than 300 and one with a seating capacity of about 250, with modern audio and video presentation systems. The classrooms and tutorial rooms are equipped with latest audio-visual aids and have internet connectivity. The laboratory building houses state-of-the-art teaching and research laboratories for electronics, communications, computers and networks. More than 1000 computers are installed in these laboratories for student use.

The Faculty Building Complex consists of four faculty blocks, each with 18 faculty rooms and additional rooms for support staff and meetings. The Administrative Block houses the offices of the Director, the Executive Registrar, Academic and General Administration and other support services and Board Room and Committee Rooms. The Sports and Cultural Complex has facilities for outdoor sports, such as cricket, football, hockey, basketball, volleyball, as well as indoor games like badminton, table tennis, chess and carom. It also has a gymnasium and a music room. Utilities and services such as cafeteria, food courts, ATM, medical centre, campus shop, telephone kiosk, reprography facility, sports and cultural complex, open-air theatre are all located within the campus. An independent building houses the Resource Centre (Library).

There are two Halls of Residence, one for men and the other for women. The men's hall has eight wings with a total capacity of 900 seats on twin sharing basis. The women's hall has two wings with a total capacity of 200 residents. Internet facility has been provided in the hostel rooms.

The strengthening of physical infrastructure and development of ICT has always been a priority for the Institute. During the reporting period, the Institute acquired additional ICT resources worth ₹ 50.00 lakh. The major ICT and laboratory enhancements during the reporting year included network up-gradation, expansion of wireless access points, and procurement of additional desktop computers, Matlab 2010 toolbox additional license, projectors, Mind Manager Software, analogue system lab kits, analogue oscilloscope, Sony handy-cam video recorder and smart cameras of National Instrument brand.



ANNEXURE 1

MANAGEMENT

Academic Council

Prof. S. C. Sahasrabudhe	Chairman	Director, DA-IICT
Shri. K. Narayan		Management Consultant, Reliance Group, Mumbai
Prof. Surendra Prasad		Director, Indian Institute of Technology Delhi
Prof. David Koilpillai		Professor & Dean (Planning) Indian Institute of Technology Madras
Shri. Suresh Rangachar		President, Reliance Communications Limited
Prof Sanjay Chaudhary		Dean (AP), DA-IICT, Gandhinagar
Prof V.P. Sinha		Professor, DA-IICT, Gandhinagar
Prof. Ganesh Devy		Professor, DA-IICT, Gandhinagar
Prof. Ashok Amin		Professor, DA-IICT, Gandhinagar
Prof Samresh Chatterji	Secretary	Professor & Executive Registrar (I/c), DA-IICT, Gandhinagar

Finance Committee

Prof. S. C. Sahasrabudhe	Chairman	Director, DA-IICT, Gandhinagar
Shri. K. Narayan		Reliance Group, Mumbai
Shri. Surendra Pipara		Reliance Group, Mumbai
Prof. Samaresh Chatterji		Professor & Executive Registrar (I/c), DA-IICT, Gandhinagar

Institute Officials

Director

Prof. S. C. Sahasrabudhe

Deans

Academic Programs

Prof. Sanjay Chaudhary (from 11 May 2011)

Research and Development

Prof. Anish Mathuria

Students

Prof. Sanjeev Gupta (from 1 August 2011)

Executive Registrar

Mr. P. K. Chopra

Prof. Samaresh Chatterji (Officiating)

Chief Librarian

Dr. T. S. Kumbar (On Leave from February 2012)

Mr. Satish Deshpande (Consulting Librarian, from February 2012)



Standing Committees at DA-IICT (for the Academic Year 2011-12)

Undergraduate Committee

Prof. Suman K Mitra	Convenor
Prof. Srikrishnan Divakaran	Member
Prof. Madhumita Mazumdar	Member
Prof. Anil K Roy	Member
Prof. Jaideep Mulhekar	Member
Prof. Manish Kumar Gupta	Member
Prof. Prasenjit Majumdar	Member

Post-Graduate Committee

Prof. Anjan Ghosh	Convenor
Prof. Aditya Tatu	Member and Program Coordinator - MTech Program
Prof. B N Hiremath	Member and Program Coordinator - MSc(ICT-ARD) Program
Prof. Mehul Raval	Member and Program Coordinator - PhD Program
Prof. P M Jat	Member and Program Coordinator - MSc(IT) Program
Prof. Asim Banerjee	Member
Prof. Mazad Zaveri	Member

Resource Centre Committee

Prof. Tridip Suhrud	Convenor
Prof. Gautam Dutta	Member
Prof. Preetida V Jani	Member
Mr. Satish Deshpande	Member Secretary
Dr. T S Kumbar (till 31 January)	Member Secretary

ICT Committee

Prof. C Vijaykumar	Convenor
Prof. Amit Bhatt	Member
Prof. Anjan Ghosh	Member
Prof. Rahul Dubey	Member
Mr. Nimesh patel	Member
Mr. Rajendra Shah	Member

Placement Committee

Prof. Ranendu Ghosh	Convenor
Prof. Amit Bhatt	Member
Prof. Asim Banerjee	Member
Prof. Prabhat Ranjan	Member
Prof. V Sunitha	Member

Web Committee

Prof. L Pillutla	Convenor
Prof. Jaideep Mulherkar	Member
Prof. Minal Bhise	Member
Prof. Sourish Dasgupta	Member

CEP Committee

Prof. Manjunath V Joshi	Convenor
Prof. Mehul Raval	Member
Prof. B N Hiremath	Member
Prof. Mazad Zaveri	Member

Disciplinary Committee

Dean – Students	Convenor (ex-officio)
Warden	Gents Hostel (ex-officio)
Warden	Ladies Hostel (ex-officio)
Dy. Registrar	(ex-officio)
Student Representatives	-

Gender Cell

Prof. Binita Desai	Convenor
Ms. Geeta Mehta	Member
Prof. Radha Parikh	Member
Prof. Anjan Ghosh	Member
Dr. Neeta Shah	(Director, Gujarat
Infomatics Limited)	External Member
Student Representatives	

Student Activities Council

Prof. Mukesh Tiwari	Sports Councillor
Prof. Madhumita Mazumdar	Cultural Councillor

Alumni Board

Dean – Students	Convenor (ex officio)
Prof. Anil Roy	Member
Prof. Asim Banerjee	Member
Prof. Rahul Muthu	Member



ANNEXURE 2

THESES, PROJECTS AND REPORTS

PhD Theses

1. Gandhi, Ratnik. Algebraic approach to Nash equilibria for finite normal form games, xiv, 119 p.; 2011. (Supervisor : Chatterji, Samaresh)
2. Jardosh, Sunil. CLAPDAWN: cross layer architecture for protocol design in a wireless network; xiv, 194 p.; 2011. (Supervisor : Ranjan, Prabhat)
3. Gajjar, Prakash. Some new techniques for motion-free super-resolution, xvi, 148 p., 2011. (Supervisor : Joshi, Manjunath)

MTech Theses

Communication Systems

1. Nair, Rahit R. application of compressive sensing to two-way relay channel estimation; 2012. (Supervisor : Chakka, Vijaykumar)
2. Pariyani, Sandeep. Design of an analog phase shifter at X-band for radar and telecom Applications; 2012. (Supervisor : Gupta, Sanjeev)
3. Patel, Chirag R. Person Identification from their hum with Inter-session variability compensation; 2012. (Supervisor : Patil, Hemant.)
4. Radadia, Purushotam G. Feature based approach for singer identification; 2012. (Supervisor : Patil, Hemant.)
5. Srinaga, Nikhil N. Design of a novel high linearity down conversion mixer for GSM band Applications; 2012. (Supervisor : Gupta, Sanjeev)
6. V, Harikumar. Multiresolution fusion using compressive sensing and graph cuts; 2012. (Supervisor : Joshi, M.V.)
7. Bhatt, Prakruti Vinodchandra. Low complexity 2-Level (FFT-GOERTZEL) spectrum sensing method for cognitive radio; 2012. (Supervisor : Chakka, Vijaykumar)

Computer Network Systems

1. Aghera, Piyush. Approach to build multi tenant Saas application; 2012. (Supervisor : Chaudhary, Sanjay)
2. Agrawal, Amit H. Forward error correction for software defined radio based on FPGA; 2012. (Supervisor : Dubey, Rahul)
3. Ambasana, Nikita B. FPGA implementation of environment/noise classification using neural networks; 2012. (Supervisor : Zaveri, Mazad S.)
4. Jain, Shefali. Enhancement of misbehavior detection scheme for vehicular Ad-hoc networks; 2012. (Supervisor : Mathuria, Anish)
5. Jain, Yash. Generating recommendations for agricultural crop production; 2012. (Supervisor : Chaudhary, Sanjay)
6. Joshi, Priyanka. Agro-produce marketing: Development of agro-tagger and suggestion generation system; 2012. (Supervisor : Chaudhary, Sanjay)
7. Mandloi, Dipendra Singh. SPARQLGen: Generation of SPARQL from Pseudo BGP; 2012. (Supervisor : Chaudhary, Sanjay and Jat, Pokhar Mal)
8. Padiya, Trupti. Semantic web data management: Data partitioning and query execution; 2012. (Supervisor : Bhise, Minal)
9. Sharma, Amita. Reducing climate vulnerabilities of cotton farmers in Banaskantha (North Gujarat); 2012. (Supervisor : Chaudhary, Sanjay)
10. Shinghal, Khushboo. SMS query processing for information retrieval; 2012. (Supervisor : Majumder, Prasenjit)
11. Yadav, Anshu. Modeling and detecting attacks against key agreement protocols; 2012. (Supervisor : Mathuria, Anish)

Machine Intelligence

1. Munshi, Paridhi. Fingerprint image preprocessing for robust recognition; 2012. (Supervisor : Mitra, Suman K.)
2. Parmar, Ajay. Person identification using face and speech; 2012. (Supervisor : Joshi, Manjunath V.)
3. Shikkenawis, Gitam. Locality preserving projection : A study and applications; 2012. (Supervisor : Mitra, Suman K.)
4. Vora, Manali. Texton based auto region detection for Image inpainting; 2012. (Supervisor: Joshi, Manjunath)

VLSI and Embedded Systems

1. Agrawal, Rupesh. Traffic driven topology control for network lifetime maximization; 2012. (Supervisor : Srivastava, Sanjay and Muthu, Rahul)
2. Basha, Shaik Mahaboob. Improvement of RAD technique for detecting reflector based DoS Attack; 2012. (Supervisor : Mathuria, Anish)
3. Bhumireddy, Venkata Ratnam. Design of low power and high speed comparator with DG-MOSFET; 2012. (Supervisor : Sen, Subhajit)
4. Chavada, Sujit Dilipkumar. FPGA based platform for spiking neural networks; 2012. (Supervisor : Zaveri, Mazad)
5. Chhaya, Vaibhav. CMOS current-based mixed-signal architecture for vector-matrix multiplication; 2012. (Supervisor : Zaveri , Mazad)
6. Gondaliya, Khushal V. Zero-Aware 6T asymmetrical SRAM cell for low power cache application; 2012. (Supervisor : Nagchoudhuri, Dipankar)
7. Joshi, Srawan Kumar. A Novel 7T SRAM cell design for low power cache applications; 2012. (Supervisor : Nagchoudhuri, Dipankar)
8. Rana, Kunj. Study of the effectiveness of various low power techniques on sequential and combinational gate dominated designs; 2012. (Supervisor : Bhatt, Amit)
9. Rao, D.Srinivas. Analysis of charge Injection in a MOS analog switch with impedance on source side; 2012. (Supervisor : Sen, Subhajit)
10. Shah, Hirav. Transaction Based verification of multimedia IP; 2012. (Supervisor : Dubey, Rahul)
11. Sharma, Dushyant Kumar. Reduction of power using innovative clock gating & multi vth techniques in digital design; 2012. (Supervisor : Bhatt, Amit)
12. Timbadiya, Jaykant. FPGA implementation of multiband and multimode modem for software defined radio(SDR); 2012. (Supervisor : Dubey, Rahul)
13. Tiwari, Sandeep Kumar. Design & layout of a low voltage folding & interpolation ADC for high speed applications; 2012. (Supervisor : Sen, Subhajit)
14. Topiya, Vishal N. Carrier recovery in software defined radio (SDR); 2012. (Supervisor : Dubey, Rahul)

MSc ICTARD Project Reports

1. Aghera, Nishant R. Provide fresh produce to consumer and forecasting volume of fruit and vegetables available at Nenpur, 2011. (Supervisors: Sharan, Girja)
2. Baldaniya, Kanu D. Preparation of detailed micro planning and develop a video documentary on preparation of DPR, 2011. (Supervisors: Hiremath, B. N.)
3. Bang, Imdad. To find business scope and market analysis of sumitomo pesticide in Mehsana, Sabarkantha and Banaskantha Districts, 2011. (Supervisors: Parikh, Alka)
4. Chauhan, Mayank. Content management system for GSWMA manuals, 2011. (Supervisors: Ghosh, Ranendu)

5. Chauhan, Niraj. Bridging gap between market and farmers and improving market efficiency of farmers as well as supply chain management of fruits and vegetables at Reliance Fresh Limited of Sabarkantha district, Gujarat, 2011. (Supervisors: Sharan, Girja)
6. Gajbhiye, Pranali. An impact study of self help group (SHGs) organised and promoted by ngo on women empowerment, 2011. (Supervisors: Hiremath, B. N.)
7. Jat, Radheshyam. Web based livelihood marketing system for Gujarat State Watershed Management Agency, Gandhinagar, Gujarat, 2011. (Supervisors: Ghosh, Ranendu)
8. Patel, Jay. Socio-Economic and health impact of organic farming in rural economy of Junagadh District, 2011. (Supervisors: Hiremath, B. N.)
9. Patel, Vishal K. Study the supply chain of fruits and vegetables of Reliance Fresh, 2011. (Supervisors: Sharan, Girja)
10. Sardhara, Hareh R. Market analysis and product development work of sumitomo products for cumin crop in Halwad Taluka and develop an Information system for farmers, 2011. (Supervisors: Parikh, Alka)
11. Singh, Mrinalini and Shyam Dadhaniya. Study of the penetration and effectiveness of ICT Services disseminated to the rural population and suggest ICT applications, 2011. (Supervisors: Ghosh, Ranendu)
12. Singh, Rupesh Kumar. A social economic impact assessment of drought effect in Kutchh District of Gujarat, 2011. (Supervisors: Hiremath, B. N.)



FACULTY WITH AREAS OF INTEREST

Regular Faculty

Name of the Faculty	Areas of Interest
Amin, Ashok PhD (Electrical Engineering) Northwestern University, USA	Graph algorithms, network reliability, program complexity, models of diagnosable systems
Banerjee, Asim PhD (Electrical Engineering) IIT Bombay	Pattern recognition, medical imaging, image processing, digital signal processing, speech coding, software engineering, software quality assurance and project management
Bhatt, Amit PhD (Electrical Engineering) North Carolina State University, USA	3D IC, computer architecture, low power methodology in digital design
Bhise, Minal PhD (Computer Science) BITS Pilani	Semantic web, distributed databases, software system analysis and design
Chatterji, Samaresh PhD (Mathematics) Wayne State University, USA	Algebra, discrete mathematics, computer simulation and applications
Chaudhary, Sanjay PhD (Computer Science) Gujarat Vidyapith, Ahmedabad	Distributed computing, service oriented architecture and ICT applications in agriculture
Das, Manik Lal PhD (Information Technology) IIT Bombay	Information security, cryptography, system design and analysis
Dasgupta, Sourish PhD (Computer Science) University of Missouri-Kansas City USA	Distributed multi-agent system, semantic web, artificial intelligence
Desai, Binita BFA (Fine Arts) MS University, Baroda Animation, National Institute of Design, Ahmedabad	Animation, communication design and multimedia
Devy, Ganesh PhD (English) Shivaji University, Kolhapur	Comparative literature, cultural studies
Divakaran, Srikrishnan PhD (Computer Science) Rutgers University, USA	Design and analysis of algorithms for problems in bioinformatics, machine scheduling and distributed systems
Dubey, Rahul PhD (Electrical Engineering) IIT Roorkee	Design and prototyping of digital systems, factory automation
Dutta, Gautam PhD (Physics) Physical Research Laboratory, Ahmedabad	Quantum computers, signal processing, image processing, particle physics
Ghodgaonkar, Deepak PhD (Electrical Engineering) University of Utah, USA	RF and microwave engineering, microwave measurements, microwave characterization of composite materials, biomedical applications of microwaves, RFID and metamaterials

<p>Ghosh, Anjan PhD (Electrical Engineering) Carnegie Mellon University, USA</p>	<p>Optical computing, optical communications and networking, photonics, meta-materials, chaos, sensors, sensor networking, MEMS, instrumentation, e-health, open-source software, engineering education</p>
<p>Ghosh, Ranendu PhD (Soil Science and Agricultural Chemistry) Indian Agricultural Research Institute, New Delhi</p>	<p>Satellite remote sensing, GIS, satellite communication applications for rural development, sustainable agriculture system.</p>
<p>Gupta, Manish K. PhD (Mathematics) IIT Kanpur</p>	<p>Information processing in biology, bio-molecular (DNA, membrane, cell) computing, coding and information theory, cryptology, quantum computing, computational, structural and systems biology and bioinformatics</p>
<p>Gupta, Sanjeev PhD (Communication Engineering) Queen's University, Belfast, UK</p>	<p>Smart antennas, communication and radar systems, RF/microwave applications</p>
<p>Hiremath, B. N. PhD (Agricultural Economics) University of Kentucky, USA</p>	<p>Sustainable rural livelihoods, food and livelihood security at household level, participatory approaches, rural development, natural resources and environmental economics, research methodology.</p>
<p>Jani, Preetida V. PhD (Electrical Engineering) University of Technology, Sydney, Australia</p>	<p>Wireless and cellular networks, mobile networks, ubiquitous connectivity, data compression algorithms, network security, wireless systems, cognitive radio</p>
<p>Joshi, Manjunath V. PhD (Electrical Engineering) IIT Bombay</p>	<p>Computer vision, image processing, super-resolution, restoration, signal processing, digital communication</p>
<p>Kollipara, Bharani Ph.D. (English Literature) English and Foreign Languages University, Hyderabad, India</p>	<p>Literature and philosophy, ancient Greek philosophy, political theory, aesthetics</p>
<p>Majumder, Prasenjit PhD (Computer Science), Jadavpur University, Kolkata</p>	<p>Information retrieval, natural language processing, digital libraries</p>
<p>Mathuria, Anish PhD (Computer Science) University of Wollongong, Australia</p>	<p>Computer security</p>
<p>Mazumdar, Madhumita PhD (Modern History) University of Calcutta, Kolkata</p>	<p>Social history of science, technology and medicine in India, cultures of communication and media</p>
<p>Mishra, Gaurav Ph.D. (Information and Communication Technologies for Rural Development) University of Reading, UK</p>	<p>E-Governance ICT for development, Communication for development, rural development, human-computer Interaction</p>
<p>Mitra, Suman Kumar PhD (Computer Science) Indian Statistical Institute, Kolkata</p>	<p>Image processing, pattern recognition, fractal, Bayesian network, digital image watermarking</p>
<p>Mulherkar, Jaideep PhD (Mathematics) University of California, Davis, USA</p>	<p>Mathematical physics, quantum computation and information</p>

Muthu, Rahul PhD (Computer Science) Homi Bhabha National Institute, Mumbai	Graph theory, algorithms
Mondal, Samrat PhD (Information Technology) IIT Kharagpur	System security, database system, formal verification
Nagchoudhuri, Dipankar PhD (Electrical Engineering) Michigan State University, USA	VLSI design, CMOS circuits and technology, biomedical signal processing chip design
Pal, Dipankar PhD (Circuits and Systems) Jadavpur University, Calcutta	Low power analog circuits and analog ASIC
Pandya, Abhinay MTech (Information Technology) IIT Bombay	Theoretical physics, pattern recognition, machine learning, natural language processing, bioinformatics
Pandya, Vishvajit PhD (Anthropology) University of Chicago, USA	Material culture, design and communication culture, visual anthropology, rituals and history
Parikh, Alka PhD (Agriculture and Allied Economics) Cornell University, USA	Rural development and the related issues like agriculture, poverty, unemployment and wages, rural finance, environment and development, disaster management
Parikh, Chetan D. PhD (Electrical Engineering) University of Florida, Gainesville, USA	Analog and mixed-signal VLSI design
Parikh, Radha PhD (Special Education) University of Missouri, Columbia, USA	Communication, value education, constructivist approach to teaching and learning, technology in education (e-learning)
Patil, Hemant PhD (Signal Processing) IIT Kharagpur	Speaker recognition and wavelet signal processing
Pillutla, Laxminarayana PhD (Electrical Engineering) University of British Columbia, Canada	Statistical signal processing, information theory, game theory, non-linear optimization, wireless sensor networks, cognitive radio, cross layer design of wireless networks
Ranjan, Prabhat PhD (Physics) University of California, Berkeley, USA	Wireless sensor network, robotics and embedded systems, nuclear fusion, Linux operating system
Rajwade, Ajit Ph.D. (Computer Science) University of Florida, USA	Image processing, image restoration and compression, computer vision, machine learning
Raut, Manoj Kumar PhD (Mathematics) IIT Madras	Combining decision procedures, theorem proving, knowledge representation and reasoning, logic
Raval, Mehul S. PhD (Electronics and Telecommunications) University of Pune	Digital image processing, digital watermarking
Roy, Anil PhD (Physics) IIT Delhi	Fibre optics and optical communication, quantum optics, nanotechnology, semiconductor devices

<p>Sahasrabudhe, S. C. PhD (Communication/Signal Processing) Leningrad University, USSR</p>	<p>Communications, signal and image processing and microprocessor applications.</p>
<p>Sen, Subhajit PhD (Analog VLSI Design) University of Waterloo, Canada</p>	<p>Analog and RF microelectronic circuit design: signal conditioning and data-acquisition for sensor applications, frequency synthesis, low-power circuits for instrumentation and biomedical applications, energy harvesting techniques, non-linear analysis of electronic circuits.</p>
<p>Sinha, V. P. PhD (Electrical Engineering) University of London, UK</p>	<p>Digital signal and image processing, theory of communication, discrete mathematics and logic, modern Fourier theory</p>
<p>Srivastava, Sanjay PhD (Physics) University of California, Los Angeles, USA</p>	<p>Computer networks, protocol modelling, simulation</p>
<p>Suhrud, Tridip PhD (Political Science) Gujarat University</p>	<p>Life and thought of Mahatma Gandhi, 19th century social and literary thought</p>
<p>Sunitha, V. PhD (Mathematics) IIT Madras</p>	<p>Algorithms, discrete mathematics, graph theory, parallel and distributed computing, theoretical computer science, interconnection networks</p>
<p>Tatu, Aditya PhD (Image Analysis) University of Copenhagen, Denmark</p>	<p>Applications of differential geometry (shapes, curve evolutions etc.) image features, continuous optimization</p>
<p>Tiwari, Mukesh PhD (Optical Science and Engineering) University of New Mexico, USA</p>	<p>Statistical physics, non linear dynamics, quantum transport, surface science</p>
<p>Vijaykumar, C. PhD (Communication Engineering) REC Tiruchirapalli</p>	<p>Digital signal processing, estimation theory, wireless communications, speech processing</p>
<p>Visvanathan, Shiv PhD (Sociology) University of Delhi</p>	<p>Sociology of science and technology, violence and globalisation, corruption, sociology of disasters, culture and communication, futures</p>
<p>Zaveri, Mazad PhD (Electrical and Computer Engineering) Portland State University, Oregon, USA</p>	<p>Cortex-inspired computational models: artificial and spiking neural networks, associative memories, intelligent signal-processing, Bayesian inference, hierarchical and modular models of the mammalian cortex, neuromorphic hardware, circuits and architectures: digital and mixed-signal vlsi, nano-architectures, hybrid nanotechnology - CMOL, architecture performance/price assessment, hardware design-space exploration</p>

Visiting Faculty

Name of the Faculty

Areas of Interest

Jat, Pokhar Mal

MTech (Mechanical Engineering)
IIT Delhi

Databases, software design and semantic web

Sarkar, Aditi Nath

M A (South Asian Languages and
Civilizations)
University of Chicago, USA

Literature, religion, cultural history, south Asian civilization
studies

Sharan, Girja

PhD (Agricultural and Biological
Engineering)
Cornell University, USA

Modeling of agricultural and biological systems, technology
for arid areas, earth-tube-heat-exchanger, greenhouse, dew
harvest condensers, radiation-cooling

Adjunct Faculty

Name of Faculty

Area of Interest

Banerjee, Soumitra

MBA
Indore University

Business strategy and management

Banerjee, Nandini

PhD (Economics)
R. D. University, Jabalpur

Organisational behaviour, economics, management

Bhargava, Naval Kishore

PGDM (Marketing & Finance) IIM Calcutta

Marketing & finance

Dasgupta, Kuntala

B Sc Calcutta University West Bengal

Rabindranath Sangeet

Doctor, Khushru F.

MCA & and Certified Information Systems
Auditor (CISA)
Gujarat University, Gujarat

Project management and computer security

Jha, Sunita

MTech (Biochemical Engineering &
Biotechnology) IIT Delhi

Biochemistry & Biotechnology

Krishnamurthi, G.

PGDM
IIM Bangalore

Project management, and agribusiness

Kumbar, T. S.

PhD (Library and Information Science)
Gulbarga University

Technical communication

Parikh, Margie

PhD

Management, organizational theory

Patel, Bhavesh

Master in Communication Design
DA-IICT

Photography

Patel, Narendra

Diploma in Visual Communication
National Institute of Design, Ahmedabad

Animation

Purohit, Nikunj MCA Saurashtra University Tata Consultancy Services	Project management, software development
Raje, Nitin PhD (Advanced Building Systems) Carnegie Mellon University, USA	Computer games, computer graphics, image processing, GIS
Rangwala, Tanvi MS (University of Southern California), USA	Computer science, entrepreneurship
Rao, U. T. MBA (Finance) Berhampur University	Business finance
Raval, Nikhil MBA (Strategic Management) California State University, USA	Business management, strategy and finance
Roy, Sukanto PG Diploma in Communication Design, NID	User centered design
Sengupta, Amit MBBS, MD(OBS-GYN), Ph.D (Biomedical.Engg.- IIT Delhi, MROGS(ROM)	Medical electronics, instrumentation, imaging, affordable technology, Woman's health
Trivedi, Bhushan PhD (Computer Science) Hemchandracharya North Gujarat University	Computer networks, data structures, object-oriented programming
Trivedi, Jigish MTech (ICT) DA-IICT	Information systems modeling, strategic management, problem solving techniques
Yagnik, Jignasu MBA Gujarat University	Management information system

LISTING OF STAFF MEMBERS

Academic Administration

1. Mr. P. K. Chopra, Executive Registrar
2. Mr. B. Sreekumar, Deputy Registrar (Academic)
3. Mr. J. P. Yagnik, Assistant Registrar (Academic)
4. Mr. Jalpesh Pandya, Academic Assistant
5. Mr. Venugopal P. R., Secretary to Director
6. Ms. Sangita Karia, Secretary to Executive Registrar
7. Mr. Abhilash Kumar Bhaskaran, Faculty Secretary
8. Mr. Satyabir Singh, Faculty Secretary
9. Ms. Deepa Poduval, Faculty Secretary
10. Ms. Anuradha Srivastava, Faculty Secretary
11. Mr. Mukesh Thaker, Faculty Secretary
12. Mr. PNN Nair, Deputy Placement Officer
13. Ms. Anjali Kulshrestha, Placement and CEP Officer
14. Ms. Geeta S. Nair, Secretary - Placement and CEP

Administration and Estate

1. Mr. Hasendrasinh Jhala, Head - HR and Administration
2. Ms. Geeta Mehta, Accounts Officer
3. Mr. Rajesh V. Patel, Estate Engineer
4. Ms. Niketa P. Raval, Receptionist - Office Assistant
5. Mr. Kiritkumar Pandya, Administrative Assistant
6. Mr. Santosh Pandit, Accounts Assistant
7. Mr. Sudhir Dave, Commercial Assistant
8. Mr. Bhavesh Shah, Stores Assistant
9. Mr. Gyanesh Pandya, HR Assistant
10. Mr. Jitendra Parmar, Hostel Supervisor
11. Mr. Sawankumar Sachaniya, Hostel Supervisor
12. Mr. Dharamsinh Karmyal, Sports Officer
13. Mr. Shirish Verma, Sports Assistant

Resource Centre

1. Dr. T. S. Kumbar, Librarian
2. Mr. Satish Deshpande, Consulting Librarian
3. Mr. Suresh Balutagi, Senior Professional Assistant
4. Mr. Prasanna Kumar Muduli, Junior Professional Assistant
5. Mr. Saurabh Prajapati, Junior Professional Assistant
6. Mr. A. Rajakumar, Junior Professional Assistant
7. Mr. Manoj Nair, Library Assistant
8. Mr. Manish Goswami, Library Attendant
9. Mr. Mahesh Nandaniya, Library Trainee
10. Mr. Jigar Soni, Library Trainee
11. Ms. Pooja Madlani, Library Trainee

Systems and Laboratory

1. Mr. Nimesh B. Patel, System Engineer
2. Mr. Rajendra B. Shah, Laboratory Superintendent

3. Mr. Ramesh Prajapati, Laboratory Assistant
4. Ms. Krupa V. Pandya, Laboratory Assistant
5. Mr. Sanjay Bariya, Laboratory Assistant
6. Mr. Suryakant Goswami, Laboratory Assistant
7. Mr. Krunal G. Patel, Laboratory Assistant
8. Ms. Firoja Sheikh, Laboratory Assistant
9. Mr. Bhargav Patel, Laboratory Assistant
10. Mr. Naresh J. Patel, Laboratory Assistant
11. Mr. Prabhunath Sharma, Model Maker

Project Staff

1. Mr. Milind G Padalkar joined on 1 August 2011 as Jr. Research Fellow on IDH-HAMPI (IDHHII) project. (Supervisor : Prof. Manjunath Joshi)
2. Mr. Darsh Shah joined on 5 August 2011 as Research Asst. on BRFST project. (Supervisor : Prof. Prabhat Ranjan)
3. Mr. Vedang Patel joined on 5 August 2011 as Research Asst. on BRFST project. (Supervisor : Prof. Prabhat Ranjan)
4. Ms. Sarita Agrawal joined on 25 August 2011 as Sr. Research Fellow on SPIIT project. (Supervisor : Prof. Manik Lal Das)
5. Ms. Jyoti Gupta joined on 6 September 2011 as Project Personnel on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
6. Mr. D. Srinivas Rao joined on 1 October 2011 as Jr. Research Fellow on Department of Information Technology SERC project. (Supervisor : Prof. Subhajit Sen)
7. Ms. Amita Sharma joined on 17 October 2011 as Jr. Research Fellow on SOASDSR project. (Supervisor : Prof. Sanjay Chaudhary)
8. Mr. Vikas Kumar joined on 17 October 2011 as Sr. Research Fellow on SOASDSR project. (Supervisor : Prof. Prof. Sanjay Chaudhary)
9. Mr. Venka Ratnam Bhumireddy joined on 17 October 2011 as VLSI JRF on VLSI project. (Supervisor : Prof. Subhajit Sen)
10. Mr. Amritesh Kumar joined on 1 February 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
11. Mr. Chitharanjan Das joined on 1 February 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
12. Ms. Minaxi Tiwari joined on 1 February 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder).
13. Mr. Priyank Parashar joined on 1 February 2012 as Project Assistant on VAGT project. (Supervisor : Prof. Anil Roy)
14. Mr. Parth Darji joined on 1 February 2012 as Project Assistant on VAGT project. (Supervisor : Prof. Anil Roy).
15. Mr. G K S Prithvi joined on 1 February 2012 as Project Assistant on VAGT project. (Supervisor : Prof. Anil Roy)
16. Mr. Vivek V Dwivedi joined on 1 February 2012 as Project Assistant on VAGT project. (Supervisor : Prof. Anil Roy)
17. Mr. Rushiraj Yadav joined on 13 February 2012 as Research Assistant on SPARQL project. (Supervisor : Prof. Sanjay Chaudhary)
18. Mr. Atharva Patel joined on 14 February 2012 as Research Assistant on SPARQL project. (Supervisor : Prof. Sanjay Chaudhary)
19. Ms. G L Neeharika joined on 1 March 2012 as VLSI RA on VLSI RA project. (Supervisor : Prof. Subhajit Sen)
20. Mr. P N V S Ravali joined on 1 March 2012 as Project Assistant on CLIA project.

- (Supervisor : Prof. Prasenjit Majumder)
21. Ms. Janki H Akhani joined on 2 April 2012 as Project Person Cat-C on Department of Information Technology - TTS project. (Supervisor : Prof. Hemant Patil)
 22. Ms. Vibha Prajapati joined on 2 April 2012 as Project Person Cat-D on Department of Information Technology - Prosodically project. (Supervisor : Prof. Hemant Patil)
 23. Mr. Maulik C Madhavi joined on 2 April 2012 as Project Person Cat-A on Department of Information Technology - Prosodically project. (Supervisor : Prof. Hemant Patil)
 24. Ms. Indrani Choudhary Singh joined on 4 April 2012 as Women Scientist on DST WOS-A project. (Supervisor : Prof. Ranendu Ghosh)
 25. Ms. Harsha Kokel joined on 1 May 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 26. Ms. Rashmi S joined on 1 May 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 27. Ms. Devika Dwivedi joined on 1 May 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 28. Ms. Rini Joshi joined on 1 May 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 29. Mr. Dhruv kumar Patel joined on 1 May 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 30. Mr. Shubham Srivastava joined on 1 May 2012 as Project Assistant on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 31. Mr. Nitin Ramrakhiyani joined on 16 May 2012 as Jr. Research Fellow on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 32. Mr. Nileshkumar Vaishnav joined on 16 May 2012 as Project Person Cat-A on DIT-TTS project. (Supervisor : Prof. Hemant Patil)
 33. Mr. Bhavik Vachhani joined on 16 May 2012 as Project Person Cat-B on DIT-Prosodically project. (Supervisor : Prof. Hemant Patil)
 34. Mr. Kewal D Malde joined on 16 May 2012 as Project Person Cat-B on DIT-Prosodically project. (Supervisor : Prof. Hemant Patil)
 35. Ms. Swati Talesara joined on 16 May 2012 as Project Person Cat-B on DIT-TTS project. (Supervisor : Prof. Hemant Patil)
 36. Mr. Nirmesh J Shah joined on 16 May 2012 as Project Person Cat-B on DIT-TTS project. (Supervisor : Prof. Hemant Patil)
 37. Mr. Hardik Sailor joined on 16 May 2012 as Project Person Cat-B on DIT-TTS project. (Supervisor : Prof. Hemant Patil)
 38. Mr. Vaibhav Joshi joined on 16 June 2012 as Sr. Research Fellow on BRNS project. (Supervisor : Prof. Mehul Raval)
 39. Mr. Parth Mehta joined on 21 May 2012 as Jr. Research Fellow on CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 40. Ms. Tanvina Patel joined on 21 May 2012 as Project Person Cat-A on DIT-TTS project. (Supervisor : Prof. Hemant Patil)
 41. Mr. Parth Gupta joined on 6 July 2012 as Project Linked Internship on Department of Information Technology, DIT-CLIA project. (Supervisor : Prof. Prasenjit Majumder)
 42. Mr. Vishal Dave joined on 23 July 2012 as Jr. Research Fellow on SOASDSR project. (Supervisor : Prof. Sanjay Chaudhary)





Annual Report Committee

Prof. Sanjay Chaudhary | Prof. Sanjeev Gupta | Prof. B. N. Hiremath | Mr. Satish Deshpande | Prof. Anish Mathuria | Prof. Madhumita Mazumdar | Prof. Samaresh Chatterji

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