



ANNUAL REPORT 2013 2014

August 2013 – July 2014



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

Near Indroda Circle, Gandhinagar, Gujarat, India 382 007.

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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



President

Shri Anil D Ambani Chairman, Reliance Group, Mumbai

Members

Prof R Natarajan	Former Chairman, AICTE and former Director, IIT Madras, Chennai
Prof B S Sonde	Former Professor, Indian Institute of Science, and former Vice Chancellor, Goa University
Prof Ashok Jhunjhunwala	Professor, Indian Institute of Technology Madras, Chennai
Prof S C Sahasrabudhe	Director, DA-IICT
Shri A M Tiwari	Principal Secretary Dept of Higher and Technical Education Govt of Gujarat, Gandhinagar
Shri S J Haider	Principal Secretary Dept of Science and Technology Govt 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 Suman K Mitra	Dean (Academic Programs), DA-IICT
Prof Anish Mathuria	Dean (Research & Development), DA-IICT
Secretary	
Shri Soman Nair	Executive Registrar, DA-IICT

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

Director's Page



Prof S C Sahasrabudhe

This report places in perspective the overall patterns of productivity and progress of DA-IICT in the year 2013 – 2014. It has been yet another year marked by continuity and growth, of which the report will provide the reader a general idea.

A faculty devoted to scholarship and research, and an earnest and enquiring student body are what form the mainstay of our progress towards distinction and recognition. The Institute has painstakingly nurtured an enabling atmosphere on both fronts.

Our linkages, in research and education, with other academic institutes, inside the country and outside, have been on the increase, and our efforts are on to scale them up in the years ahead.

This report is an open document and, through this, we present ourselves for a wide public scrutiny. Comments and suggestions are welcome from all.

S C Sahasrabudhe
Director



About the Institute

The Institute

The Dhirubhai Ambani Institute of Information Technology (DA-IICT), is a statutory University under an Act of Gujarat State Legislature (Act No. 6 of 2003) and is recognized by the University Grants Commission under Section 2(f) of the UGC Act. The Association of Indian Universities (AIU) has admitted DA-IICT as a member of AIU in 2009. The University is founded by the Reliance Group.

DA-IICT seeks to invoke the broader vision of Late Shri. Dhirubhai Ambani, the founder of Reliance Group, and weave both knowledge and innovation as part of an evolving style. The Institute is 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.

DA-IICT is the first Institute in the country to introduce a B Tech in ICT, long before ICT was a well-established term. Today, other Institutes are following our footsteps, recognizing that ICT should not be separated into diverse disciplines like Computer Science Engineering and Electronics and Communication Engineering at the academic level, when industry has long realized that these disciplines have converged into a seamless whole. DA-IICT is also the first to have introduced a B Tech Honours Program in ICT with Computational Science as minor from the academic year 2013-14. Besides these programs, DA-IICT offers five post-graduate programs including the Doctoral Program. DA-IICT also designs and offers continuing education programmes in ICT to upgrade the skills and competence of professionals, government officials and defence service men.

All the technology faculty members of DA-IICT have PhD degrees. Their background is fairly international -- majority of them have returned from abroad after obtaining their PhD degrees and teaching in reputed universities abroad. Besides their teaching engagements, they are committed to research and

are also consulted by national and international organizations frequently. 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.

The Institute has always been privileged to get students who are brilliant and creative learners from diverse backgrounds. Amongst the important awards and laurels the students have recently earned are: Google Woman in Engineering, Google Summer of Code, Microsoft Imagine Cup, HP Innovation Prize.

The DA-IICT alumni are proven professionals. Spread all over the country and abroad, they are top-notch achievers -- professionals, innovators, researchers and entrepreneurs. Recently, one of the DA-IICT graduates won the Rolex Young Laureate Award.

In a short period of thirteen years, DA-IICT has made significant contributions to ICT and allied fields. A good number of authoritative national surveys have always ranked DA-IICT as the topmost private technology university in the country. From its inception, DA-IICT has been receiving several awards and recognitions.

At the invitation of Government of Gujarat, DA-IICT is mentoring the new Indian Institute of Information Technology, Vadodara (IIIT-V), set up under Public-Private Partnership mode, for the last two years. Besides managing the affairs of the Institute, DA-IICT has designed two under-graduate programs -- B Tech in Computer Science and Engineering (CSE) and B. Tech in Information Technology (IT) -- for IIIT-V and they are being offered from the academic year 2013-14.

Gandhinagar

Gandhinagar, the capital of Gujarat, is a modern 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 which would transform Gandhinagar into a knowledge city. The subsequent range of Institutes, inter alia, include campuses of the Indian Institute of Technology, National Institute of Design, Pandit Deendayal Petroleum University, Central University of Gujarat, Gujarat Forensic Sciences University, Institute for Plasma Research, Gujarat National Law University and National Institute of Fashion Technology.

The city constitutes a knowledge hub and an ecological corridor rendering it into a green city. DA-IICT can be reached in about 30 minutes from Sardar Vallabhai Patel International Airport and the Central Railway Station, Ahmedabad.

Campus

The DA-IICT campus is thoughtfully planned and designed as an environmentally conscious campus. The entire design was oriented towards preserving the environment. There are over 2700 trees, mostly belonging to indigenous varieties. The lawn area measures roughly 50,000 square meters. Over 3000 bamboos mask the buildings on the campus keeping the campus cool during summer. Adjacent to the Resource Centre stands the herb garden with many species of rare medicinal plants. The landscape was planned and developed in a manner that no excess rainwater is lost and all irrigation for campus garden and lawns is carried out with recycled water. The bird population on the campus is diverse -- the campus is a haven for bird-watchers, with many species of birds being observed.



Academic Programs

In the academic year 2013-14, the B Tech (Honours) in ICT with minor in Computational Science was launched with an intake of 60 students. DA-IICT is the first Institute in the country to have designed and offered two under-graduate programs in Information and Communication Technology. It now offers two under-graduate programs in ICT, one with Computational Science as minor, four post-graduate programs and a doctoral program. DA-IICT also offers tailor-made short term training

programs. All these programs have significant research and development components. The faculty is credited with several research contributions and this research attitude is reflected in their teaching. The faculty and students hold seminars, workshops and conferences to disseminate their research findings as well as to stimulate learning and research aptitude in students. The details of the academic programs offered are given in the Table 1.

Table 1: Academic Programs

Sr. No.	Programs	Commencement	Duration (Years)	Annual Intake*
1	BTech (ICT)	2001	4	240
2	BTech (Honours) ICT with Computational Science as minor	2013	4	60
3	MTech (ICT)	2002	2	50
4	MSc (Information Technology)	2002	2	90
5	MSc (ICT in Agriculture and Rural Development)	2002	2	20
6	MDes (Communication Design)	2004	2	20
7	PhD	2002	3-5	10-20

*Exclusive of NRI/foreign students

CURRICULUM REVISION

The review and revision of course-curriculum of MDes (CD) and MSc (ICT-ARD) programs is in progress.

ADMISSIONS

The notification for admission to all teaching programs was released in leading regional and national newspapers in April, 2014. The process of receiving online forms was open from April 28 to June 04, 2014.

Under-Graduate Programs (B.Tech (ICT) and B.Tech (ICT) Honours with Computational Science as minor)

Eight thousand four hundred and sixty six candidates applied for admission to 150 national quota seats of the B.Tech (ICT) and B.Tech (ICT) Honours with Computational Science as Minor programs. Of

the total 300 seats, 50% of seats were filled on a national basis. The remaining 50% were filled through the Admission Committee for Professional Courses (ACPC), Government of Gujarat. The seats filled through the ACPC were exclusively for those candidates who have studied in schools situated in Gujarat and have appeared for their XII standard or equivalent examinations from Gujarat State. Both the admissions were based on the All India Rank of Joint Entrance Examination 2014 (JEE-2014) Main, which was conducted by the Central Board of Secondary Education. A limited number of seats were offered to Non-Resident Indians, Foreign Nationals and Persons of Indian Origin. They were admitted on the basis of the SAT/JEE 2014 score. The Institute follows the guidelines for admission of reserved category

students. The starting and closing JEE merit ranks of the students admitted under each category are given in Table 2 below.

The orientation programs for admitted students were held during July 28-30. One of the sessions during the orientation was scheduled for parents. During the orientation, students as well as the parents gained first-hand information about the course structure, evaluation system, grading, academic regulations, faculty, campus and infrastructure facilities.

The course structures of under-graduate programs are spread over eight semesters. A unique feature of

the programs is the mandatory rural internship. The internship is carried out in villages with village-based organizations and the purpose of the internship is to give the student a feel of his/her social milieu. The student is also required to take a six-week industrial/research internship on completion of foundation courses. The student has a choice of taking an industrial internship or a research internship depending on his/her career goals. Finally, the student is required to take a project during which he is required to demonstrate his ability to learn current areas of research and/or industrial interest, his ability to utilize the topics he has learnt during his stint in the program and his creative and design abilities.

Table 2: JEE Merit Ranks of Students

Rank	Category	BTech (ICT)	BTech (Honours) (CS)
Best AIEEE Rank	All India (Gen)	1569	923
	Gujarat (Gen)	3497	806
Lowest AIEEE Rank	All India (Gen)	14228	8367
	Gujarat (Gen)	59361	35659

Post-Graduate Programs M.Tech (ICT), M.Sc (IT), M.Sc (ICT-ARD), M.Des (Communication) and Ph.D

The admission to all Post-graduate programs, except for the M Tech (ICT) program, was done on the basis of merit rank in the entrance test conducted by the Institute.

For the M Tech program, admission was carried out on the basis of the GATE score in the disciplines of Electronics and Communication, Computer Science and Information Technology only. Applicants having a B Tech /BE degree in ICT or allied disciplines or MSc degree in Mathematics, Physics, Electronics or Statistics were eligible. For admission to MSc (IT) program, a national level online entrance test was conducted at various centers. For the MSc (IT), the students were admitted solely on the basis of their

merit rank. A specially designed admission test was conducted for admission to MSc (ICT-ARD), M Des (CD) and PhD programs and the final selection was made on the basis of the entrance test and interviews. The details about the entrance test dates for different post-graduate programs are given in Table 3.



Table 3: Entrance Test Details

Programs	Test Location	Date
MSc (ICT-ARD)	On-line at major cities in India	08 June 2014
MSc (IT)	On-line at major cities in India	08 June 2014
MDes (CD)	DA-IICT Campus, Gandhinagar	05 July 2014
PhD	DA-IICT Campus, Gandhinagar	03 July 2014

DA-IICT has signed an MOU with the Indian Navy under which the Navy can nominate qualified naval officers for M.Tech and PhD Programs at DA-IICT and carry out joint research, development and training projects. During the reporting year, three young naval officers have joined the program under this arrangement.

DA-IICT has an MoU with the Space Applications Centre (SAC) of Indian Space Research Organisation (ISRO) to admit their officers into the PhD program. The candidates are selected after a rigorous screening carried out at SAC, followed by interview by a Selection Committee at DA-IICT. Presently, there are six officers going through the doctoral studies. During the academic year, one scientist of SAC was admitted to the PhD programme.

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

Orientation

The orientation for fresh PG students was conducted during July 22-27, 2014. During the orientation, they were given detailed account of the curriculum, academic requirements and policies. They met instructors of the first semester courses for briefings. Specific sessions were organized program-wise with emphasis on the details of the curriculum and the available options with regard to elective courses. Apart from academic orientation, they were also given orientation to the campus and hostel life by the student volunteers. All new entrants were exposed to various aspects of engineering with emphasis on ICT.

Table 4: Admissions Details

Programs	Application Received	Admission Offers
MTech (ICT)	941	53
MSc (IT)	541	82
MSc (ICT-ARD)	32	6
MDes (CD)	36	7
PhD	97	5

FINANCIAL SUPPORT

The Institute provides financial support in the form of fellowships, scholarships and teaching and research assistantships to eligible students.

Reliance Merit Scholarships

Reliance, as part of its Corporate Social Responsibilities (CSR), has instituted merit scholarships to DA-IICT

students pursuing under-graduate and Master's Programs in Information and Communication Technology (ICT) and ICT in Agriculture and Rural Development (ICT-ARD). The number of scholarship offered now is ten for Under-graduate and five for Master's Program students. They will be scaled upto forty scholarships for Under-graduate and ten for Master's Program students in a period of four years beginning 2014. The scholarship is equal to the full



tuition fee for the duration in which the scholarship is awarded.

TCS Research Fellowship

The Tata Consultancy Services (TCS) has recognized DA-IICT as one of the Institutions to administer the TCS Research Scholar Program. This prestigious program provides attractive doctoral fellowships and contingency grant to full-time students pursuing PhD programs in broad areas of Computer Engineering, Computer Science, Information Systems, Information Technology and Software Engineering. Over and above fellowship, the Scholars are eligible to receive one-time contingency grant, support for paper presentation in one International refereed conference, held outside India, and two National/International refereed conferences held in India, during the Scholar's tenure.

TCS Students Award

DA-IICT is one of the Institutions selected by TCS for the 'TCS-100 Best' high-ranking engineering Institute student award scheme. The 'TCS 100 Best' is to enhance student's attention towards academics through healthy competition.

DA-IICT Scholarships

The Institute offers Merit Scholarship and Merit-Cum-Means Scholarships for B Tech (ICT) students. In each category, upto five students are awarded scholarships at the beginning of every academic year. The scholarship amount covers full tuition fees per semester for the entire duration of the program. Merit scholarship is awarded to all the students having JEE All India Rank up to 5000. During the reporting year, none of the 2012 batch students qualified to receive the Merit Scholarship. The Merit-cum-Means scholarship is awarded to students on the basis of their academic performance and whose parent(s)/guardian(s)' annual income is up to Rs.2,50,000/-. Five students of 2012 were awarded the Merit-Cum-Means Scholarships.

Assistantships

The Institute offers full-time and half-time teaching assistantships to students of the M Tech (ICT) and PhD programs and half-time teaching assistantships to qualified BTech (ICT) students in their final year.

Chief Minister Scholarship Scheme, Government of Gujarat

The students of DA-IICT are encouraged to apply for the newly introduced integrated 'Chief Minister Scholarship Scheme,' by the Government of Gujarat in March 2014. The Scheme provides financial help to bright and needy under-graduate students whose parents' income is up to Rs.4.5 lakh. Government of Gujarat has designated DA-IICT as one of the Institutions to guide the students in preparation and submission of applications for the scholarship.

THESES Master's Theses

The thesis work of the M Tech (ICT) students starts from the summer semester after their second semester courses. They work comprehensively to generate interesting research outcome under the guidance of the faculty. The list of M Tech theses completed during the year is given in the **Annexure 2**. Students of MSc (ICT-ARD) and M Des (CD) programs work full time on projects during their fourth semester or at leading organizations. The list of projects completed by the students of M Des (CD) and MSc (ICT-ARD) programs during the year is given in **Annexure 2**.

INSTITUTIONAL COLLABORATION AND STUDENT EXCHANGE PROGRAMS

The Institute has signed Memorandums of Understanding with national and international Institutions to promote and enhance academic and research interactions as well as collaborations. The MOUs which were in force during the reporting period are as follows:

- **Government of Gujarat:** To mentor the Indian Institute of Information Technology, Vadodara, set up on PPP model by the Central and State Governments and Industry.
- **Indian Navy:** To admit eligible candidates sponsored by the Navy for M Tech and other advanced courses including PhD, joint research and development and training.
- **Indian Institute of Technology, Gandhinagar:** To collaborate on teaching and research and exchange scientific and academic personnel.

- **Ramakrishna Sarada Sevashram, Bastar:** To sponsor eligible candidates for doctoral studies at DA-IICT, develop and support joint research programs and conduct specialized courses.
- **eiTRA-einfochips Institute of Training Research and Academics Limited, Ahmedabad:** To train and upgrade the skills of eiTRA employees, conduct lectures for academic programs offered by Ganpat University, provide consultancy and guidance for technological research and project execution, facilitate DA-IICT students to carry out their internship and project work at eiTRA-einfochips and jointly offer continuing education programs.
- **International Crops Research Institute for the Semi-Arid Tropics, Hyderabad:** To participate in teaching, training and research; explore external funding opportunities for research, exchange and host students and scholars for research and degree programs by each other and exchange scientific materials and publications.
- **Institut Supérieur D'Electronique De Paris, France:** For exchange of faculty, students and joint research.

DA-IICT has also been receiving students from other institutions for internships or project work under the guidance of the faculty. Most of the interns arrive during the summer semester when it is usually possible to spare faculty time, provide hostel facilities as well as use of the Laboratories and Resource Centre.



CONTINUING EDUCATION PROGRAM (CEP)

DA-IICT designs and offer continuing education programs to assist researchers, academicians and professionals in industries, public and government organizations to develop their skills. These programs are identified as knowledge-sharing programs and they are in the forms of workshops, seminars and hands-on training. The Institute provides end-to-end services in training and development for knowledge transfer and skill enhancement in areas such as Information and Communication Technology,

GIS, VLSI technology, Embedded Systems, Computer Vision and Image Processing, Wireless Communications, Network Administration and Security, Linux, Database Management, Software Testing and Soft Skills. In previous years, the Institute had conducted long duration programs for Indian Air Force service personnel and during the reporting year, conducted short duration programs for the administrative staff of Indian Air Force. The details of the programs conducted during the year are given below:

Sr. No.	Programs	Sponsor/ Coordinator	Period	No. of Participants
01	Speech Processing and its Applications	Prof. Hemant Patil	14 October, 2013	26
02	Text to Speech Synthesis	Prof. Hemant Patil	16 – 18 June, 2014	80
03	Workshop of Soft Skills	Indian Air Force	16 – 20 June, 2014	15
04	Training on MS Office	Indian Air Force	23 – 27 June, 2014	15

AWARDS AND RECOGNITIONS

Embedded/VLSI Industry-Academic Institution 2013 Leadership Award

DA-IICT was conferred the 'Embedded/VLSI Industry-Academic Institution 2013 Leadership Award' instituted by the Silicon India and Mentor Graphics Corporation, a leader in electronic hardware and software design solutions. In its fourth year, the award honors the best in the VLSI/Embedded Industry. The award is conferred upon DA-IICT in recognition of its contribution towards embedded software industry. The award was conferred on 6th December 2013 in the presence of 160 top leaders from embedded/VLSI Industry.

DataQuest CMR T-SCHOOL Survey 2013

The authoritative DataQuest CMR T-SCHOOL Survey 2013 has ranked DA-IICT, for the second time, in the club of top ten Technology Institutions in India.

Outstanding IEEE Student Branch Chapter Award 2013

The Institute of Electrical and Electronics Engineers (IEEE) awarded DA-IICT the 'Outstanding IEEE Student Branch Chapter Award 2013.'



Placements and Internships

PLACEMENTS

DA-IICT has been one of the preferred Institutes by recruiters. A good number of students have been recruited by Direct-I, Flipkart, Qualcomm, Amazon, Morgan Stanley, Deloitte and ZS. The 2013 placement season saw recruiters from a spectrum of industries offering job profiles like software engineers, business analysts and graduate engineer trainees. More than 54 companies participated in campus placement for 2013-14 batch.

Sapient Nitro, Saba Softwares, Evosys, HP, Ishi Systems, Fiberlink, Kuliza, TCS, Infosys, Wipro. Many students were also offered project internships in premier research institutions such as Bell Labs, ISRO and IBM and in companies like Capillary, Amazon and Oracle. The placement process also benefited junior batches with many of them securing summer internships.

Other companies which visited the campus included

Placement 2013-14	B.Tech	M.Tech	MSc (IT)	MSc (ICT) ARD
Students opting for campus placements (each batch)	160	45	73	07
Students opting out of campus placement (each batch)	37	02	03	-
Total	197	47	76	07

Details	B.Tech	M.Tech	MSc (IT)	MSc (ICT) ARD
Number of jobs offered including double offers	176	24	32	03
Number of jobs accepted	149	22	31	03

A good number of students got placements in the companies in which they did their summer internships.

The average annual salary package was Rs. 5.73 lakh. The highest salary package touched Rs. 20.37 lakh per annum.





RURAL INTERNSHIPS

The B. Tech curriculum mandates that all students undertake a four-week Rural Internship at the end of their third semester. The objective of the Internship is to expose the students to the social and economic realities of the rural lives, sensitize them to the vulnerabilities of rural people, and help them to appreciate the constraints and opportunities for development. Rural Internship thus entails placing students in villages across India to work in a non-governmental organization engaged in socio-economic development.

The internship lasted for four weeks from December 02 to 28, 2013. Two hundred and twenty seven students (46 female and 181 male) undertook their Internship in rural areas in 45 organizations in 11 States. The organization with which the student chose to affiliate provided students with specific projects. The projects undertaken were in broad areas of education, rural information and communication systems, ecology and environment, biodiversity, rural governance, agriculture, and citizen rights.

All students successfully completed their internships documenting their observations and experiences. The students shared their experiences and learning through a poster session. The internship has positively added value to their education while contributing meaningfully to the civil society organizations' efforts towards rural re-construction.

The following Table provides the list of organizations where the students completed their Rural Internships:

Sl. No.	Organizations	Students
1	APMAS, Andhra Pradesh	3
2	Aravali, Ajmer, Rajasthan	2
3	Aravali, Bara, Rajasthan	2
4	Aravali, Jaipur, Rajasthan	2
5	Astha Sansthan, Rajasthan	4
6	Banas Dairy, Gujarat	4
7	Baroda Dairy, Gujarat	16
8	Bolbala Charitable Trust, Gujarat	10
9	Daang Vikas Sansthan, Gujarat	2
10	Dhruva- BAIF, Gujarat	6
11	Doodh Sagar Dairy, Gujarat	6
12	Foundation For Ecological Security - Madanapalle, Andhra Pradesh	6
13	Foundation For Ecological Security , Anand, Gujarat	4
14	Foundation For Ecological Security , Dahod, Gujarat	2

15	Foundation For Ecological Security , Ujjain, Rajasthan	4
16	Foundation For Ecological Security, Madanapally, Andhra Pradesh	4
17	Godavari Maha Samakya, Andhra Pradesh	4
18	Gram Vikas Seva Sansthan, Jodhpur, Rajasthan	6
19	Gramin Vikas Trust Jaipur, Rajasthan	6
20	Gramin Vikas Trust, Banswara, Rajasthan	4
21	Gramin Vikas Trust, Jhabua, Madhya Pradesh	4
22	Gramin Vikas Trust, Ratlam, Madhya Pradesh	3
23	Gramin Vikas Trust,, Dahod, Gujarat	4
24	Gujarat Rural Institute for Socio -Economic Reconstruction, Gujarat	6
25	Himalayan Environmental Studies & Conservation Organization, Uttarakhand	4
26	Himalayan Institute For Environment, Uttarakhand	6
27	Jatan Sansthan, Rajasthan	4
28	North Himalayan Environment Protection And Education, Haryana	6
29	Pahel, Uttar Pradesh	6
30	People's Science Institute, Uttarakhand	8
31	Prayas Sansthan, Rajasthan	3
32	Prayatna Samiti, Rajasthan	2
33	Ramakrishna Sarada Sevashram, Chhattisgarh	4
34	Society for Elimination of Rural Poverty, Andhra Pradesh	2
35	Self-Employed Women's Association, Gujarat	8
36	Shree Aayurved Gramodyog Mandal, Gujarat	4
37	Society for Promotion of Wastelands Development, Gujarat	4
38	Sri Gowthami Urban And Rural Integrated Development And Educational Society, Andhra Pradesh	13
39	Sursagar Dairy, Gujarat	6
40	Sutra, Himachal Pradesh	4
41	Tribhuvandas Foundation, Gujarat	11
42	Uma Educational & Technical Society, Andhra Pradesh	10
43	Unnati, Gujarat	4
44	Vasudhara Dairy, Gujarat	6
45	Watershed Organization Trust , Rajasthan	2
	TOTAL	227



B.Tech Summer Internship - 2013-14		
Number of students opting for Research Internship: 168		
Number of Organizations/Institutions: 8		
S.No.	Name of the Organization/Institution	No. of Students
1	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	161
2	Indian Institute of Information Technology, Hyderabad	1
3	Indian Institute of Science, Bangalore	1
4	Indian Institute of Technology Bombay, Mumbai	1
5	Indian Institute of Technology Delhi, New Delhi	1
6	Institute for Development and Research in Banking Technology, Hyderabad	1
7	Maulana Azad National Institute of Technology, Bhopal	1
8	Vellore Institute of Technology, Vellore	1
Number of students opting for Industrial Internship: 52		
Number of Organizations: 35		
S.No.	Name of the Organization	No. of Students
1	Access Infotech (P) Ltd., Chandigarh	1
2	Adodis Technologies, Bangalore	1
3	Amazon Development Center, Bangalore	1
4	Apex TG India Pvt. Ltd., Noida	1
5	Bharat Heavy Electricals Limited, Hyderabad	1
6	BISAG, Gandhinagar	5
7	Bombil Media, Mumbai	1
8	Cadence Design Ststems Pvt. Ltd., Noida	1
9	Codenxt Web Technologies Pvt. Ltd., Ahmedabad	1

10	Defence Laboratory, Jodhpur	1
11	DRDO, Delhi	2
12	Ecolibrium Energy Pvt. Ltd., Ahmedabad	1
13	Ethon Healthcare Solutions, Hyderabad	1
14	Excel Entertainment & Events, Ahmedabad	1
15	Flipkart Internet Private Ltd., Bengaluru	2
16	Google (Google Summer of Codes)	4
17	Gujarat Informatics Ltd., Gandhinagar	1
18	Hacker Rank, Bangalore	1
19	Haymarket Sac Publishing (India) Pvt. Ltd., Mumbai	1
20	India Meteorological Department, New Delhi	1
21	MAQ Software, Mumbai	1
22	Mobile Healthcare Pvt. Ltd., New Delhi	1
23	Out of Box Interactions Media Solutions Pvt. Ltd., Bangalore	1
24	Panamax Infotech Ltd., Ahmedabad	1
25	Pivoting Software Pvt. Ltd., Ahmedabad	1
26	Play Power Labs Pvt. Ltd., Gandhinagar	3
27	Prismatic Technologies Pvt. Ltd., Gandhinagar	2
28	Research Designs and Standards Organization, Lucknow	1
29	Sriya Technologies (P) Ltd., Siliguri	2
30	Storyline, Ahmedabad	1
31	Suruchi-Digiworld - Exclusive chain of Videocon Industry, Patna	4
32	Systweak Software, Jaipur	1
33	Tata Consultancy services, Gandhinagar	1
34	Zocalo Realtech Pvt. Ltd., Gurgaon	1
35	Zone Startups India, Canada	2

Tenth Convocation

The tenth Annual Convocation was held on 18th January, 2014. Professor Arvind, Johnson Professor of Computer Science & Engineering, Massachusetts Institute of Technology, USA, graced the event as the Chief Guest. Shri Suresh Rangachar, Member, Board of Governors, and President, Reliance Communications Limited, Mumbai, presided over the function. Three hundred fifty eight students received their Degrees and they included 48 M Tech (ICT), 89 MSc (IT), 9 MSc (ICT-ARD), 8 M Des (CD) and 204 B Tech (ICT).

The President's Gold Medals were awarded to the following students for attaining scholastic achievements in their respective programs:

M Tech (ICT) (2011)

Mohammadi Zaki

Patel Darshal Sureshkumar

MSc (IT) (2011)

Trapasiya Ankurkumar Mansukhbhai

MSc (ICT-ARD) (2011)

Panchal Prakashkumar Amrutlal

B Tech (ICT) (2009)

Turakhia Naman Vipulkumar

In his convocation address, Professor Arvind recalled his days at the Indian Institute of Technology, Kanpur, as an under-graduate student fifty years back. He recalled that, in those days, there was no television and there were only three stations on the short wave and medium wave radios and the primary entertainment for students was the weekly 16 mm movie that was organised by the student body. There was no e-mail, internet, google or face book to keep the students busy. The students entertained themselves by talking with fellow students endlessly and formed everlasting friendships. While times have changed, the factors that will determine one's success in life going forward have not changed



BTech 2009 Batch

since he finished his under-graduate studies at IIT, Kanpur. He cautioned the graduating students “You may encounter a different type of competition in the real world. In the end, the level of competition does not determine your success, but your approach to that competition does.” He told the students that, in the discipline of Sciences and Engineering, there is no substitute for hard work and, regardless of what one learns, one has to learn a lot more after graduation and good education is about learning how to learn. He narrated a few incidents that he encountered in his professional life as a teacher and as an entrepreneur and learnt that the quality of his life as a teacher was far superior than running a

company. His parting thoughts for the students were: “Fundamental things in life do not change because of technology or politics. Hard work matters and that is possible only if you feel passionate about it. You can never stop being curious for learning new things. Learning is far more important than the speed of learning. No aspiration is too high as long as you are willing to work towards it.”

Professor Sahasrabudhe, the Director, presented before the august audience a brief report on achievements of the students and activities of the Institute.



PG 2011 Batch

Research and Entrepreneurship

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 equipment, campus-wide networking, and high-speed internet access, and subscription to hundreds of print and online journals. The Institute also houses an Incubation Center to nurture and develop business ideas based on new technology.

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. The Institute has

a good track record of attracting external funding for sponsored projects. Over the last decade, a large number of sponsored projects have been initiated by faculty members, including international projects. Many students have started their own companies.

SPONSORED PROJECTS

Three new sponsored projects were awarded to the faculty during the year 2013-14, one of which is part of a consortium project led by IIT Madras. Two members of the faculty have been selected to receive an early adopter grant from the NSF supported Center for Parallel and Distributed Computing Curriculum Development and Educational Resources (CDER) at Georgia State University, USA. Table 1 lists the funding sources, project titles and investigators on grants received during the period of this report.

Table 1: New projects

AGENCY	TITLE	DURATION	INVESTIGATORS
DIT	Speech based Access of Agricultural Commodity Prices and Weather Information in 12 Indian Languages/ Dialects (Automatic Speech (ASR) Consortium : Phase-II	2014-16 (2 Years)	Hemant Patil M.V. Joshi
SAC	Ultra Wide Band Dielectric Resonator Antenna	2014-16 (2 Years)	Deepak Ghodgaonkar Sanjeev Gupta
NSF/TCPP	Fall-14 CDER Early Adopter		Bhaskar Chaudhury Mukesh Tiwari

Table 2 lists the funding sources, project titles and investigators on ten ongoing sponsored projects on which faculty continued work.

Table 2: Ongoing projects

AGENCY	TITLE	INVESTIGATORS
DST	Development of Infant Cry Analyzer Using Source And System Features	Hemant Patil
DIT	Development of Cross Lingual Information (CLIA) System : Phase-II	Prasenjit Majumder Suman Mitra
DST	Wireless Telemedicine using Body Area Sensor Networks and Heterogeneous Access Networks	Laxminarayana Pillutla
DST	Service-oriented Architecture for spatial Data Integration and Spatial reasoning	Minal Bhise PM Jat Sanjay Chaudhary
DST	Indian Digital Heritage (IDH-Hampi) : Phase-II (Digital Capture of Culture & Heritage)	Manjunath Joshi Hemant Patil
National Innovation Foundation	Value Addition in Grassroots Technologies	Anil Roy Rahul Dubey
BRNS	Techniques for Robust Face Recognition with post variation	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	Hemant Patil M.V. Joshi
DIT	Development of Prosodically Guided Phonetic Engine for searching in Indian Languages	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	Indrani Choudhury Singh Ranendu Ghosh

Table 3 lists three sponsored projects which were completed during the period of this report.

Table 3: Completed projects

AGENCY	TITLE	INVESTIGATORS
Board for Research in Nuclear Sciences (BRNS)	Securing Biometric Data Using Data Hiding Techniques	Mehul Raval Suman Mitra
ezDI, Ahmedabad Research Centre	Semantic Web Based Parser, SPARQL Query Builder and Information Extraction from Social Networks	Sanjay Chaudhary P.M. Jat Minal Bhise
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	Vijay Kumar Chakka Rahul Dubey

DA-IICT served as a member of the Standards Committee set up for the purpose of evaluation of the 'e-Pramaan,' a national e-authentication service developed and offered by the Department of Electronics and Information Technology (DeitY), Ministry of Communications & Information Technology, Government of India, and the Center for Development of Advanced Computing (C-DAC). e-Pramaan provides a simple, convenient and secure way for users to access government services over internet/mobile and the Government to assess the authenticity of the users.

Incubation Centre

DAIICT Centre for Entrepreneurship and Incubation (DCEI) has incubated five startup companies.

- Alma Connect Solutions Private Limited
- Appbin Labs Private Limited
- Areysun Online Private Limited
- SB Edu Analytics Consultancy Private Limited
- Playpower Labs India Pvt Ltd

Alma Connect was featured in Careers 360 magazine cover story entitled '15 Knowledge Driven Entrepreneurs,' in the December 2013 issue.

DCEI received the second installment of a three-year, Rs.150 lakh grant from DeitY, Government of

India, for expansion of its activities. The grant will be used for supporting additional start-up companies.

The following two seminars were organized by the Incubation Centre.

Entrepreneurship Orientation Seminar

Shilpa Mallik (icreate) and Sarthak Jain (GridAnts), 04 September, 2013.

Global Business Planning Competition - Arch Grants

Mohit Patel, Genetix Fusion LLC, St. Louis, Missouri, USA, 7 August, 2013.

Visiting Fellow

Mr. Ramadhani Saidi Sinda, Tanzania, 29 July to 29 October, C. V. Raman International Fellowship for African Researchers. (Faculty host: Prof. Sanjay Srivastava)

CONSULTANCY PROJECTS

Faculty provided consulting services to two organizations in their areas of expertise.

ORGANIZATION	CONSULTING AREA	FACULTY
Adani Institute of Infrastructure Management	Renewable Energy Applications	Girja Sharan
Samyak Infotech Pvt. Ltd.	Transportation Workflow Management System	Sourish Dasgupta

Workshops, Special Lectures and Visitors

SPECIAL LECTURES

Prof. V. S. Raju, former Director of IIT, Delhi, 'Challenges and Opportunities for Indian Engineers,' 19 November 2013.

Ms. Sunayana Sitaram, Ph.D. scholar at Carnegie Mellon University, USA, 'Text-to-Speech (TTS) Synthesis,' 4 January 2014.

Prof. Anirban Dasgupta, IIT, Gandhinagar, 'Algorithms for Faster Projections and Sketches,' 17 April 2014.

Prof. V. M. Gadre, IIT, Bombay, 'Placeholder Representation for Functions and why wavelets are so important as a representation paradigm,' 5 March 2014.

Dr. C. P. Ravikumar, Texas Instruments, Bangalore, 'Challenges and Opportunities in Embedded Systems,' 27 March 2014.

SEMINAR/WORKSHOPS

Workshop on 'Speech Signal Processing and its applications,' Continuing Education Program, DA-IICT, 14 October 2013.

National Workshop on 'Cyber Security,' IEEE Gujarat Section, DA-IICT, 16-17 November 2013.

Symposium on 'Positive Youth Development,' DA-IICT, 2 December 2013. Chief Guest was Mr. Nisheeth Mehta, CEO, Microsign Products.

Conf.ked.in conference, DA-IICT, 21-23 February 2014.

Workshop on 'Text-to-Speech (TTS) Synthesis,' DA-IICT, 16-18 June 2014



VISITORS

Dr. Amitava Babi Mitra, Dean, School of Engineering & Technology, BML Munjal University, Delhi visited DA-IICT on 19 November 2013 and held discussions on various programs at DA-IICT. PhD scholars consulted him.

Mr. Saikat Guha, Researcher at Microsoft Research India, Bangalore, visited DA-IICT on 19 December 2013 and held discussion about ongoing research at DAIICT and opportunities for collaboration.

Students and faculty of Department of Library & Information Science, Sardar Patel University, Vallabh Vidyanagar visited DA-IICT on 21 February 2014 and held discussions on operational activities of Resource Centre.

Mr. Manish Kumar, Centre for Development of Advance Computing, visited DA-IICT for IMPACT assessment of TIDE scheme by Diety, 16-17 July 2014.





Faculty Publications

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

In 2013-2014, the faculty and staff published ten books, three chapters in books, two Reports and seventy papers in journals and conferences.

Books

1. **Devy, G. N.** *The Being of Bhasha: A General Introduction* (People's Linguistic Survey of India Vol. 1). New Delhi: Orient Blackswan, 2014, ISBN: 9788125054887.
2. **Modi, Amishal.** *Prelude to a Storm*. Kolkata: Writers' Workshop, India: 2013, ISBN: 9789350450512.

Edited and/or Translated Books

1. **Devy, G. N.,** Davis, Geoffrey and Chakravarty, K. K. (Eds.), *Knowing Differently*. New Delhi: Routledge India, 2013.
2. **Devy, G. N.** (Ch. Ed.), Bhattacharya, Tanmoy, Grover, Nisha and Randhawa, Surinder P. K. (Eds.). *The Indian Sign Languages* (People's Linguistic Survey of India Vol. 38). India: Orient Blackswan, 2014.
3. **Devy, G. N.** (Ch. Ed.), Syiem, Esther (Ed.). *The Languages of Meghalaya* (People's Linguistic Survey of India Vol. 19). Part Two India: Orient Blackswan, 2014.
4. **Devy, G. N.** (Ch. Ed.), Syiem, Esther (Ed.). *The Languages of Meghalaya, In Khasi and Garo Languages*, People's Linguistic Survey of India. vol. 19, Part One, India: Ri-Khasi Book Company, 2014.
5. **Devy, G. N.** (Ch. Ed.), Koul, O. N. (Eds.). *The Languages of Jammu and Kashmir*, People's Linguistic Survey of India. vol. 12, India: Orient Blackswan, 2014.
6. **Devy, G. N.** (Ch. Ed.), Meena, Madan and Kumar, Prabhat (Eds.). *The Languages of Rajasthan*, in Hindi, People's Linguistic Survey of India. vol. 26, Part One, India: Orient Blackswan, 2014.

7. **Devy, G. N.** (Ch. Ed.), Pathak, Shekhar and Bhat, Uma (Eds.). *The Languages of Uttarakhand*, in Hindi, People's Linguistic Survey of India. Vol. 29, Part One, India: Orient Blackswan, 2014.
8. **Devy, G. N.** (Ch. Ed.), Pathak, Shekhar and Bhat, Uma (Eds.). *The Languages of Uttarakhand*, in English, People's Linguistic Survey of India. vol. 29, Part One, New Delhi: Orient Blackswan, 2014.

Book Chapters

1. Muraharirao, Siva Charan and **Das, Manik Lal**, "Securing Digital Image with Authentication Code," In *Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies*, Muhammad Sarfraz, Ed., IGI Global, 2014, pp. 203-215. doi:10.4018/978-1-4666-6030-4.ch011
2. Jain, Shefali, **Mathuria, Anish** and **Das, Manik Lal**, "Misbehavior Detection in VANET: A Survey." In *Security, Privacy, Trust, and Resource Management in Mobile and Wireless Communications*, Danda B. Rawat, Bhed B. Bista and Gongjun Yan, Eds. IGI Global, 2014, pp. 134-147. doi:10.4018/978-1-4666-4691-9.ch007
3. **Pandya, Vishvajit**, "Events, Incidents and Accidents: Re-Thinking Indigenous Resistance in the Andaman Islands," In *Savage Attack: Tribal Insurgency in India*, Crispin Bates and Alpa Shah, Ed., Orient BlackSwan, 2014, pp. 167-199.

Journal Papers

1. Boeuf, Jean-Pierre and **Chaudhury, Bhaskar**, "Rotating Instability in Low-Temperature Magnetized Plasmas," *Physical Review Letters*, vol. 111, no. 15, pp. 155005, October 2013.
2. **Das, Manik Lal** and Samdaria, Navkar, "On the security of SSL/TLS-enabled applications," *Applied Computing and Informatics*, vol. 10, no. 1-2, pp. 68-81, January 2014. doi: 10.1016/j.aci.2014.02.001
3. Mittal, Rachit and **Das, Manik Lal**, "Secure Node Localization in Mobile Sensor Networks," *International Journal of Wireless Networks and Broadband Technologies*, vol. 3, no. 1, pp. 18-33, January 2014. doi:10.4018/ijwnbt.2014010102.

4. **Dasgupta, Sourish**, Aroor, Anoop, Shen, Feichen and Lee, Yuyung, "SMARTSPACE: Multiagent Based Distributed Platform for Semantic Service Discovery," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 44, no. 7, pp. 805–821, July 2014. doi: 10.1109/TSMC.2013.2281582.
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7. Choudhury, Indrani and **Ghosh, Ranendu**, "Spatiotemporal coupling of land surface and energy balance parameters with monsoon rainfall using remote sensing technology," *International Journal of Remote Sensing*, vol. 35, no. 2, pp. 532-553, January 2014. doi:10.1080/01431161.2013.871082.
8. **Gupta, Manish K.** and Durairajan, Chinnappillai, "On the covering radius of some modular codes," *Advances in Mathematics of Communications*, vol. 8, no. 2, pp. 129-137, May 2014.
9. Bhatt, Jignesh S., **Joshi, Manjunath V.** and Raval, M. S., "A Data-Driven Stochastic Approach for Unmixing Hyperspectral Imagery," *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 7, no. 6, pp. 1936-1946, June 2014. doi: 10.1109/JSTARS.2014.2328597.
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11. **Kollipara, Bharani**, "The Ethics of Pain," *Anekant: A Journal of Polysemic Thought*, no. 2, pp. 47-54, March 2014.
12. Munshi, Paridhi and **Mitra. Suman K.**, "On reconnection of broken ridges and binarization for fingerprint images", *Journal of Advancement in Robotics*, vol. 1 no. 1, pp. 17-28, May 2014.
13. **Parikh, Alka**, "Evaluating Catastrophe Insurance," *Geography and You*, vol. 14, no. 83, March-April 2014.
14. **Parikh, Radha**, "Survey of Engineering students' use of Internet," *International Journal of Information & Communication Technologies and Human Development*, special issue on *Creating Online Culture through Information Communication Technologies*, vol. 6, no. 2, pp. 45-55, April-June 2014.
15. **Parikh, Radha**, "My last trek Part II," *Ideas & Ideologies International e-Journal*, vol. 1, no. 4, December 2013 [Online]. Available: <http://www.ideas-ibookpub.com/?q=node/20>.
16. **Parikh, Radha**, "Paru's Story," *Ideas & Ideologies International e-Journal*, vol. 2, no. 1, March 2014 [Online]. Available: <http://www.ideas-ibookpub.com/?q=node/11>.
17. **Raut, Manoj K.** and Singh, Arindama, "Survey on computing prime implicants and implicates in classical and non-classical logics," *International Journal of Computer Systems Science and Engineering*, vol. 29, no. 2, pp. 1-14, April 2014.
18. **Sahu, Nabin Kumar**, Mohapatra, Ram N., Nahak, C. and Nanda, S., "Approximation solvability of a class of A-monotone implicit variational inclusion problems in semi-inner product spaces," *Applied Mathematics and Computation*, vol. 236, pp. 109-117, June 2014.
19. **Tiwari, Mukesh** and Kenkre, V. M., "Approach to equilibrium of a nondegenerate quantum system: decay of oscillations and detailed balance as separate effects of a reservoir," *The European Physical Journal B*, vol. 87, no. 4, pp. 1-7, April 2014.

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1. **Bhateja, Puneet**, "A TGV-like approach for asynchronous testing," In *Proceedings of the Seventh India Software Engineering Conference*, Chennai, India, February 2014, article 13.
2. **Bhise, Minal** and Chaudhary, Sanjay, "RESTful Services for Agricultural Recommendation System," In *Proceedings of National Spatial*

- Data Infrastructure 2013*, IIT Bombay, Mumbai, India, November 2013, pp.46-52.
3. Kumar, Vikas, Dave, Vishal, Nagrani, Rohan, Chaudhary, Sanjay and **Bhise, Minal**, "Crop Cultivation Information System on Mobile Phones," In *IEEE Global Humanitarian Technology Conference*, Trivandrum, India, 23-24 August 2013, pp. 196-202.
 4. Joy, Arun, and **Chakka, Vijay Kumar**, "Low Complexity 2D Adaptive Channel Estimation for OFDM Based Two-Way Relay Systems." In *Proceedings of IEEE Seventh International Conference on Next Generation Mobile Apps, Services and Technologies*, 25-27 September 2013, pp. 192-197.
 5. Boeuf, Jean-Pierre, **Chaudhury, Bhaskar** and Kolev, Stanimir, "Particle-In-Cell simulation of a magnetized plasma column exhibiting a non-linear rotating structure." *Bulletin of the American Physical Society: 66th Annual Gaseous Electronics Conference*, Princeton, USA, vol. 58, no. 8, 30 September-4 October 2013.
 6. Boeuf, Jean-Pierre and **Chaudhury, Bhaskar**, "Rotating instabilities in Low Temperature Plasmas," In *Proceedings of the Fifteenth Latin American Workshop on Plasma Physics*, Costa Rica, 27-31 January 2014, pp. 155005.1-155005.5.
 7. Kumar, Naveen, **Mathuria, Anish** and **Das, Manik Lal**, "Simple and Efficient Time-Bound Hierarchical Key Assignment Scheme," In *Proceedings of the Ninth International Conference on Information Systems Security*, Kolkata, India, (LNCS 8303), 2013, pp.191-198.
 8. **Das, Manik Lal**, "Strong Security and Privacy of RFID system for Internet of Things Infrastructure," In *Proceedings of the International Conference on Security, Privacy, and Applied Cryptography Engineering*, Kharagpur, India, (LNCS 8204), 19-23 October 2013, pp.56-69.
 9. Kumar, Naveen, **Mathuria, Anish**, **Das, Manik Lal** and Matsuura, Kanta, "Improving Security and Efficiency of Time-Bound Access to Outsourced Data," In *Proceedings of Sixth ACM India Computing Convention*, Vellore, India, 22-24 August 2013, Article 9.
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 11. Upla, Kishor P., **Joshi, Manjunath V.** and Gajjar, Prakash P., "Pan-sharpening: Use of Difference of Gaussians," In *IEEE Geoscience and Remote Sensing Symposium 2014*, Quebec, Canada, 13-18 July, 2014, pp. 4922-4925.
 12. Gajbhar, Shrishail S. and **Joshi, Manjunath V.**, "Novel Designs For Nonsubsampled Multiresolution Directional Filter Banks And An Extra Finer Directional Wavelet Transform," In *Second IEEE China Summit and International Conference on Signal and Information Processing*, Xi'an, China, 9-13 July, 2014, pp. 339-343.
 13. Khatri, Nilay and **Joshi, Manjunath V.**, "A Faster and Smarter Self-learning from Single Image for Image Upsampling," In *Twenty Second International Conference on Computer Graphics, Visualization and Computer Vision*, Plzen, Czech Republic, 2-5 June 2014, pp. 1-8.
 14. Gajbhar, Shrishail S. and **Joshi, Manjunath V.**, "Image Denoising Using Redundant Finer Directional Wavelet Transform," In *The fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics*, Jodhpur, India, 18-21 December 2013, pp. 1-4.
 15. Nahar, Sonam and **Joshi, Manjunath V.**, "A Learning Based Approach for Dense Stereo Matching with IGMRF Prior," In *The fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics*, Jodhpur, India, 18-21 December 2013, pp. 1-4.
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19. Padalkar, Milind G., Vora, Manali, **Joshi, Manjunath V.**, Zaveri, Mukesh A. and Raval, Mehul S., "Identifying Vandalized Regions in Facial Images of Statues for Inpainting," In *Second International Workshop on Multimedia for Cultural Heritage*, Naples, Italy, (LNCS 8158), 9 Sep. 2013, pp. 208-217.
20. **Kollipara, Bharani.** "Tradition and Discipline," In *What is Indian Knowledge Good for? I Balvant Parekh Memorial Lecture & Symposium*, Balvant Parekh Centre for General Semantics, Baroda, India, 24-26 October, 2013.
21. Garg, Vipul, Saraf, Nikit and **Majumder, Prasenjit.** "Named Entity Recognition for Gujarati: A CRF Based Approach." In *First International Conference, MIKE 2013*, Tamil Nadu, India, (LNCS 8158), 18-20 December, 2013, pp. 761-768.
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24. **Mishra, Gaurav,** "Role of telecenters in empowering citizens: A case study of 'Mahiti Mitra' project in Kutch district of Gujarat, India," *Global Humanitarian Technology Conference: South Asia Satellite*, Trivandrum, India, 23-24 August 2013, pp.10-14.
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26. Shikkenawis, Gitam, **Mitra, Suman K.** and Rajwade, Ajit, "A New Orthogonalization of Locality Preserving Projection and Applications," In *Fifth International Conference on Pattern Recognition and Machine Intelligence*, Kolkata, India, (LNCS 8251), 10-14 December 2013, pp. 277-283.
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28. Phophalia, Ashish, **Mitra, Suman K.** and Rajwade, Ajit, "Object boundary detection using Rough Set Theory," In *Fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics*, Jodhpur, India, 18-21 December 2013, pp. 1-4.
29. Joshi, Vaibhav, Raval, Mehul, **Mitra, Suman K.** and Parulkar, S. K., "Reversible watermarking technique to enhance security of biometric authentication system," In *Fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics*, Jodhpur, India, 18-21 December 2013, pp. 1-4.
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 38. **Patil, Hemant A.**, Patel, Tanvina, Shah, Nirmesh, Sailor, Hardik, Krishnan, Raghava, Kasthuri, G. R., Nagarajan, T., Christina, Lilly, Kumar, Naresh, Raghavendra, Veera, Kishore, S. P., Prasanna, S. R. M., Adiga, Nagaraj, Singh, Sanasam Ranbir, Anand, Konjengbam, Kumar, Pranaw, Singh, Bira Chandra, Binil Kumar, S. L., Bhadran, T. G., Sajini, T., Saha, Arup, Basu, Tulika, Rao, K. Sreenivasa, Narendra, N. P., Sao, Anil Kumar, Kumar, Rakesh, Talukdar, Pranhari, Acharyaa, Purnendu, Chandra, Somnath, Lata, Swaran, Murthy, Hema A., "A syllable-based framework for unit selection synthesis in 13 Indian languages," in *Sixteenth International Oriental COCODA Conference*, Gurgaon, India, 25-27 November 2013, pp. 1-8.
 39. Malde, Kewal D., Vachhani, Bhavik B., Madhavi, Maulik C., Chhayani, Nirav H. and **Patil, Hemant A.**, "Development of speech corpora in Gujarati and Marathi for phonetic transcription," in *Sixteenth International Oriental COCODA Conference*, Gurgaon, India, 25-27 November 2013, pp. 1-6.
 40. Chitrora, Anshu and **Patil, Hemant A.**, "Data collection and corpus design for analysis of nonnal and pathological infant cry," In *Sixteenth International Oriental COCODA Conference*, Gurgaon, India, 25-27 November 2013, pp. 1-6.
 41. Chhayani, Nirav H. and **Patil, Hemant A.**, "Development of corpora for person recognition using humming, singing and speech," In *Sixteenth International Oriental COCODA Conference*, Gurgaon, India, 25-27 November 2013, pp. 1-6.
 42. **Patil, Hemant A.**, Chitrora, Anshu and Malde, Kewal D., "Novel modulation spectrogram based features for obstruent classification," In *International Conference on Acoustics*, New Delhi, India, 10-15 November 2013.
 43. Vachhani, Bhavik B. and **Patil, Hemant A.**, "Use of PLP cepstral features for phonetic segmentation," In *International Conference on Asian Language Processing*, Urumqi, China, 17-19 August 2013, pp. 143-146.
 44. Talesara, Swati, **Patil, Hemant A.**, Patel, Tanvina, Sailor, Hardik and Shah, Nirmesh, "A novel gaussian filter-based automatic labeling of speech data for TTS system in Gujarati language," In *International Conference on Asian Language Processing*, Urumqi, China, 17-19 August 2013, pp. 139-142.
 45. **Patil, Hemant A.** and Patel, Tanvina B, "Nonlinear prediction of speech using Volterra-Wiener Series," In *INTERSPEECH*, Lyon, FR, 25-29 August 2013, pp. 1687-1691.
 46. Malde, Kewal D., Chittora, Anshu and **Patil, Hemant A.**, "Classification of fricative using novel modulation spectrogram based features," in *Proceedings of Fifth International Conference on Pattern Recognition and Machine Intelligence*, Kolkata, India, (LNCS 8251), 10-14 December 2013, pp. 134-139.
 47. Gaur, Yashesh, Madhavi, Maulik C. and **Patil, Hemant A.**, "Speaker recognition using sparse representation via superimposed features," in *Proceedings of Fifth International Conference on Pattern Recognition and Machine Intelligence*, Kolkata, India, (LNCS 8251), 10-14 December 2013, pp. 140-147.
 48. **Pillutla, Laxminarayana S.**, Ahir, Sagar J. and Patel, Nirav, "Selection of Secondary Users for Cooperative Spectrum Sensing in Cognitive Radio Networks using Discrete Stochastic

- Optimization,” In *Tenth International Conference on Signal Processing and Communications*, Bangalore, India, 22-25 July 2014.
49. **Raut, Manoj K.**, “Incremental algorithm for computing prime implicates in modal logic,” In *International Conference on Theory and Application of Models of Computation*, Chennai, India, (LNCS 8402), 11-13 April 2014, pp 188-202.
 50. **Roy, Anil K.**, Soni, Yash and Dubey, Sonali, “Enhancing effectiveness of motor rehabilitation using kinect motion sensing technology,” In *Global Humanitarian Technology Conference: South Asia Satellite*, Trivandrum, India, 23-24 August 2013, pp. 298-304.
 51. Chaturvedi, M. and **Srivastava, Sanjay**, “Real time vehicular traffic estimation using cellular infrastructure,” In *IEEE International Conference on Advanced Networks and Telecommunications Systems*, Kattankulathur, India, 15-18 December 2013, pp 1-6.
 52. Narmawala, Zunnun and **Srivastava, Sanjay**, “Improved Heterogeneous Human Walk Mobility Model with Hub and Gateway Identification”, In *Proceedings of International Conference on Distributed Computing and Networking*, Coimbatore, India, (LNCS 8314), 4-7 January 2014, pp 469-483.

Reports

1. **Mulherkar, Jaideep**. “An efficient algorithm for the entropy rate of a hidden Markov model with unambiguous symbols,” *arXiv preprint arXiv:1402.2733*, 2014.
2. Sarvaiya, Ashish K., **Gupta, Sanjeev, Ghodgaonkar, Deepak** and Bhattacharya, Apurba. “Analysis of Radiation from Multidevice High Gain Amplifier and Interaction of Active MMIC with Package/Housing-Theory, Analysis and Measurement,” In *A Compendium of Research Papers prepared during year 2013, Technical Report No. SAC/RRCD/2013-14/03*, pp. 179-183, January 2014.



Awards and 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 abroad. Below is a listing of the major recognitions and activities of the faculty and staff of the Institute.

AWARDS/HONOURS

Padma Shri award for Professor Ganesh Devy

The Padma Shri award, the nation's civilian award for literature and education, was given to Professor Ganesh Devy on 26 January 2014. The award is conferred in recognition of his work on education of de-notified and nomadic tribes and on dying-out Indian languages. The 'Padma Shri' follows several other awards that he has received, including the Sahitya Akademi Award for a publication of original analysis of literacy criticism in India titled 'After Amnesia,' SAARC Writers Foundation Award for his work on de-notified tribals and reputed Prince Claus Award by the Prince Clause Fund for his work for the conservation of the history, languages and views of oppressed communities in Gujarat.



Prof Manjunath V. Joshi

Best Paper Award, "Image Denoising Using Redundant Finer Directional Wavelet Transform," *National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics*, Jodhpur, India, 18-21 December 2013.

Prof Bhaskar Chaudhury & Prof Mukesh Tiwari

NSF/IEEE-TCPP CDER Early Adopter Award for Fall 2014.

HONORARY WORK/POSITIONS HELD ON PROFESSIONAL BODIES

Prof S. C. Sahasrabudhe

Member, Signal Processing Panel, Naval Research Board, New Delhi

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

Member, Executive Committee Team for Washington Accord, National Board of Accreditation (NBA), New Delhi

Member, Team for Washington Accord, National Board of Accreditation (NBA), New Delhi

Member, Academic Advisory Committee, National Board of Accreditation (NBA), New Delhi

Member, Board of Governors, IIT Mandi, Himachal Pradesh

Member, Board of Governors, Consumer Education & Research Society, Ahmedabad

Member, Board of Governors, Visvesvaraya National Institute of Technology, Nagpur

Director, Sahajanand Laser Technology Limited, Gandhinagar, Gujarat

Director, Gujarat Venture Finance Ltd., Ahmedabad, Gujarat

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

Member, Academic Advisory Board of Jawaharlal Darda Institute of Engineering and Technology, (JDIET), Yavatmal

Member, Board of Governors, Vishwakarma Institute of Information Technology, (VIIT), Pune

Member, Board of Governors, Visvesvaraya National Institute of Technology (VNIT), Nagpur

Member, Working Group on Industrial Applications, DIT, New Delhi

Member, Governing Council, Sardar Patel Institute of Technology (SPIT), Mumbai

Director-In-Charge, IIIT Vadodara
 Member, Finance Committee, IIT Gandhinagar
 Member, Executive Council, Central University of Gujarat

Prof Asim Banerjee

Senior Member, Institute of Electrical and Electronics Engineers (IEEE)

Prof Bhaskar Chaudhury

Member, Institute of Electrical and Electronics Engineers (IEEE)

Member, Plasma Science Society of India (PSSI)

Prof Rahul Dubey

Chair, IEEE chapter of Industry Applications/ Industrial Electronics/Power Electronics, Gujarat Section, IEEE, Gujarat, 1 August 2013 to 31 July 2014

Educational Activity Chair, IEEE Gujarat Section, IEEE, Gujarat, 1 August 2013 to 31 July 2014

Member, Board of Studies of Instrumentation and Control Engineering (Degree Program), Nirma University, Gujarat, 1 August 2013 to 31 July 2014

Prof Deepak Ghodgaonkar

Chair, Chapter Coordinator, IEEE Gujarat Section

Fellow, The Institution of Engineers, Malaysia (FIEM), Malaysia

Life Fellow, Institution of Electronics and Telecommunication Engineers, (FIETE), India

Senior Member, Institute of Electrical and Electronics Engineers, (SMIEEE), USA

Subject Expert, Member of Faculty (Electronics and Communication) Selection Committee, Sankalchand Patel College of Engineering, Visnagar, Mehasana, Gujarat, 22 March 2014

External Examiner, Ph. D. thesis of Siti Zura Binti A. Jalil, Institute of Graduate Studies, Universiti Teknologi, MARA, Shah Alam, Selangor, Malaysia, 18 March 2014

Expert Professor, to review Doctoral Candidates & PG Students at the Research Week, 20 to 27 March 2014, Gujarat Technological University, Ahmedabad

Prof Manjunath V. Joshi

Member, Program Committee, Asian Conference on Computer Vision, 2014

Co-Chair, Program, Third Asian Conference on Computer Vision Workshop on E-Heritage, 2014

Prof Alka Parikh

Member, Annual General Meeting (AGM), Utthan, Ahmedabad

Prof Radha Parikh

Life Member, Association for the Welfare of the Mentally Handicapped (AWMH)

Life Member, Maharashtra Dyslexia Association, India

Member, English Language Teachers' Association of India

Prof Hemant A. Patil

Examiner, PhD Thesis, Manish P. Deshmukh, 'Relevance of Pattern Recognition in Forensic Science Laboratory,' North Maharashtra University (NMU), Jalgaon, Maharashtra

Member, International Association for Engineers (IAENG)

Life Member, System Society of India (SSI)

Member, IEEE, USA

Member, IEEE Signal Processing Society, USA

Member, IEEE Circuits and Systems Society, USA

Member, International Speech Communication Association (ISCA)

Prof Aditi Nath Sarkar

Member, Governing Council, Satyajit Ray Film & Television Institute, Kolkata

Prof V Sunitha

Member, Academy of Discrete Mathematics and Applications, India

FELLOWSHIPS/VISITING SCHOLAR

Prof V Sunitha

IMSc Associateship, Theoretical Computer Science, Institute of Mathematical Sciences, Taramani, Chennai, Tamil Nadu, India, 2013-14.

JOURNAL EDITORSHIP

Prof Sanjeev Gupta

Member Editorial Board, International Journal on Science and Technology

Prof Suman K. Mitra

Associate Editor, International Journal of Image and Graphics (IJIG), World Scientific, 2014-15

Prof Rutu Parekh

Member, Editorial Board, Journal of Electrical and Electronic Engineering, Science Publishing Group journal, September 2013



Prof Radha M. Parikh

Editor, Paper reviews for International Journal of Information & Communication Technologies and Human Development, Special issue on Creating Online Culture through Information Communication Technologies. IGI Publishing, 2014

Prof Hemant A. Patil

Member, Editorial Board, Engineering Letters

REVIEWING

Book Chapter Reviewing

Prof Deepak Ghodgaonkar

Reviewed chapters, 'Engineering Electromagnetics, eighth edition' W. H. Hayt, J. A. Buck and Jaleel M. Akhtar, McGraw-Hill Education (India), July 2014. ISBN: 9789339203276

Prof Manish K Gupta

Reviewed Book, 'Distributed Graph Algorithms for Computer Networks,' Erciyes K., Springer Publishing Company, London, UK, 2013. ISBN: 9781447151722. Computing Reviews, February 2014

Reviewed Book, 'Signals and Transforms in Linear Systems Analysis,' Wasyliwskyj W., Springer Publishing Company, New York, US, 2013. ISBN: 9781461432869. Computing Reviews, February 2014

Reviewed Book, 'Information Theory and Coding by Example,' Kelbert M., Suhov Y., Cambridge University Press, New York, US, 2013. ISBN: 9780521139885. Computing Reviews, April 2014

Prof Sanjeev Gupta

Review of the manuscript, three chapters, 'Communication Systems,' Cambridge University Press India, New Delhi

Journal Paper Reviewing

Prof Bhaskar Chaudhury

Physics of Plasmas, *American Institute of Physics*

European Physical Journal - Applied Physics, EPJAP, *Cambridge University Press*

IEEE Transactions on Plasma Science, *IEEE*

Journal of Electromagnetic Analysis and Applications (JEMAA), *Scientific Research Publishing Inc.*

International Journal of Electronics and Communications, *Elsevier*

Prof Manik Lal Das

IET Information Security, *IET*

IEEE Sensors Journal, *IEEE*

Prof Deepak Ghodgaonkar

IEEE Transactions on Instrumentation and Measurement, *IEEE*

IEEE Transactions on Microwave Theory and Techniques, *IEEE*

IEEE Transactions on Antennas and Propagation, *IEEE*

Prof Manish K Gupta

Designs Codes and Cryptography, *Springer*

The Bulletin of the ICA, *Institute of Combinatorics and its Applications*

Quantum Information and Computation, *Rinton Press*

Sadhana-Academy Proceedings in Engineering Science, Indian Academy of Sciences/Springer

Prof Sanjeev Gupta

Journal of Electromagnetic Waves and Applications, *Taylor and Francis*

Progress in Electromagnetic Research, *EMW Publishing*

International Journal of Applied Electromagnetics and Mechanics, *IOS Press*

IET Circuits, Devices and Systems Journal, *IET*

Indian Journal of Physics, *Indian Association for the Cultivation of Science/Springer*

Journal of the Indian Institute of Science, *Indian Institute of Science*

Iranian Journal of Electrical and Computer Engineering, Iranian Research Institute for Electrical Engineering

International Journal on Science and Technology (IJSAT), ISSN: 2229-7677

ICTACT Journal of Communication Technology, ICT Academy of Tamil Nadu

Prof B. N. Hiremath

International Journal of Development and Emerging Economics, *European Centre for Research Training and Development*

Prof Prasenjit Majumder

ACM Transactions on Information Systems, *ACM*

ACM Transactions on Asian Language Information Processing, *ACM*

ACM Computing Surveys, *ACM*

Prof Anish Mathuria

Information Sciences, *Elsevier*

Sadhana - Academy Proceedings in Engineering Science, *Indian Academy of Sciences / Springer*

Prof Gaurav Mishra

Information Technology for Development, *Taylor & Francis*

e-Journal of eDemocracy and Open Government, *Center for E-Government, Danube-University Krems*

Prof Rutu Parekh

Journal of Electrical and Electronics Engineering Research, *Academic Journals*

Prof Hemant A. Patil

Signal Processing, *Elsevier*

Prof Laxminarayana Pillutla

Wireless Personal Communications, *Springer*

Prof Nabin Kumar Sahu

International Journal of Mathematics and Mathematical Sciences, *Hindawi Publishing Co.*

Prof V Sunitha

IEEE Transactions on Parallel and Distributed Systems, *IEEE*

Conference-Paper Reviewing**Prof Asim Banerjee**

National Conference on Communications, Indian Institute of Technology, Kanpur, Uttar Pradesh, India, 28 February-2 March 2014

Fourth IEEE International Advance Computing Conference, Gurgaon, India, 21-22 February 2014

International Conference on Machine Intelligence and Research Advancement, Katra, Jammu and Kashmir, India, 27-29 December 2014

Prof Manik Lal Das

Second International Workshop on Cloud Computing & Identity Management, Mysore, India, 22-25 August 2013

Prof Deepak Ghodgaonkar

Nirma University International Conference on Engineering, Nirma University, Ahmedabad, India, 28-30 November 2013

Prof Manish K Gupta

National Conference on Communications, Indian Institute of Technology, Kanpur, UP, India, 28 February-2 March 2014

Prof Prasenjit Majumder

Thirty Seventh Annual ACM Special Interest Group on Information Retrieval Conference, Gold Coast, Queensland, Australia, 6-11 July 2014

Conference and Labs of the Evaluation Forum, Information Access Evaluation meets Multilinguality, Multimodality, and Visualization, Valencia, Spain, 23-26 September 2013

Forum for Information Retrieval Evaluation, India International Center, New Delhi, 4-6 December 2013

Prof Rutu Parekh

Eighth International Conference on Computer Engineering & Systems, Ain Shams University, Cairo, EG, 26-28 November 2013

Prof Hemant A. Patil

IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, IT, 4-9 May 2014

Fifteenth Annual Conference of International Speech Communication Association, MAX Atria, SG, 14-18 September 2014

Prof Laxminarayana Pillutla

National Conference on Communications, Indian Institute of Technology, Kanpur, 28 February-2 March 2014

Prof Sanjay Srivastava

Sixth International Conference on Communication System & Networks COMSNETS, Bangalore, India, 6-10 January 2014

International Conference on Distributed Computing and Networking, ICDCN, Amrita University, Coimbatore, 4-7 January 2014

INVITED LECTURES/TALKS/COURSES**Prof S. C. Sahasrabudhe**

Delivered the key note address at Jawaharlal Darda Institute of Engineering & Technology, Yavatmal, Maharashtra



Delivered the key note address during National Board of Accreditation (NBA) Summit, March 2014

'Outcome Assessment Tools,' Second World Summit on Accreditation by NBA at New Delhi, July 2014

Participated in 'ABET Symposium' organized as part of Washington Accord meeting in Pittsburgh, Pennsylvania, USA, April, 2014

NBA Team Member in Washington Accord meeting in Wellington, New Zealand, June 2014.

Prof Asim Banerjee

'Software Quality Assurance' and 'Software Project Estimation,' Program for Industry Professionals, 13 December 2013

'Software Scope Management' and 'Software Risk Management' Program for Industry Professionals, 14 December 2013

'Research Methodology,' Ganpat University, Mehsana, Gujarat, 7 June 2014

'Medical Image Processing,' Indus Institute of Technology, Ahmedabad, 10 May 2014

'Research Methodology,' Parul Institute of Technology, Vadodara, Gujarat, 7 June 2014

Workshop for the officers and cadets of INS Valsura, at INS Valsura, Jamnagar, for Technical Writing, 5-6 April 2014

Prof Puneet Bhateja

'Formal Methods for Automatic Test Case Generation,' talk at SSN College of Engineering, Kalavakkam, Tamil Nadu, 19 February 2014

Prof Manik Lal Das

'Security and Privacy Challenges in Internet of Things,' Central University Rajasthan, India, December 2013

Prof Rahul Dubey

'Embedded control systems,' Continuing Education Department, IIT Roorkee, 9-13 June 2014

Prof Deepak Ghodgaonkar

'Satellite Communication,' Expert Talk, Two-Day Workshop on 'Modeling and Dynamics of Satellite Communication,' School of Engineering, R. K. University, Rajkot, Gujarat, 4-5 October 2013

Prof Ranendu Ghosh

'Inter Annual Variability of Surface Energy Fluxes over Indian region from 2003-2012 and its Impact on Climate Change,' National Space Science Symposium, Dibrugarh, 29 January-4 February 2014

'Seasonal Dynamics of Surface Energy Balance Parameters-A Decadal Analysis in Agro Climatic Regions of India in Climate Change Perspectives,' the National Symposium on Remote Sensing and GIS for Environment with special emphasis on Marine and Coastal dynamics, Visakhapatnam, India, 4-6 December 2013

'Methodology to derive Spatiotemporal Dynamics of Land Surface and Energy Balance Parameters using Satellite Remote Sensing,' the International Conference on Climate Change and Himalaya: Current Status and Future Perspectives (ICCCH), New Delhi, 28-31 October, 2013

Prof Manish K Gupta

'A Story of Natural Engineering,' DST- Centre for Interdisciplinary Mathematical Sciences, Banaras Hindu University (BHU), Varanasi, 26 May 2014

'How to Code the Cloud Using Weak Dress Codes?,' DST- Centre for Interdisciplinary Mathematical Sciences, Banaras Hindu University (BHU), Varanasi, 27 May 2014

'A Story of Natural Engineering,' Samsung Advanced Institute of Technology (SAIT) Laboratory, Bangalore, 10 January 2014

Prof Sanjeev Gupta

Invited Lecture on 'Electromagnetic Waves,' EC Department, Charotar University of Science and Technology, Changa, Gujarat, 17 September 2013

Invited Lecture on 'Electromagnetic Waves – Interaction with Materials,' EC Department, Charotar University of Science and Technology, Changa, Gujarat, 28 September 2013

Invited Lecture on 'RF Solid State Design and Parametric Amplifiers,' EC Department, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat, 28 September 2013

'Mobile Tower Radiation' Technical Expert Panel Discussion, broadcasted live at Doordarshan Gujarat (Girnar) Programme 'Aapni Vaat,' 3 October, 2013

Invited Lecture on 'Fundamentals of Electromagnetics,' EC Department, Institute of Technology, Nirma University, Ahmedabad, 11 October, 2013

Invited Lecture on 'Issues and Challenges in RF System Design,' two-day Seminar at LJ Institute of Engineering and Technology, Ahmedabad, Gujarat, 17 January 2014

Invited Lecture on 'Microwave Antennas,' EC Department, Charotar University of Science and Technology, Changa, Gujarat, 13 February 2014

Prof B. N. Hiremath

'Qualitative and Mixed Research Methodologies,' National Workshop on Research Methodology, Ahmadabad University, 21 January 2014

Prof Prasenjit Majumder

'Legal informatics in FIRE,' Conference and Labs of the Evaluation Forum, Information Access Evaluation meets Multilinguality, Multimodality, and Visualization, Valencia, Spain, 23-26 September 2013

'Information Retrieval Evaluation,' Forum for Information Retrieval Evaluation, India International Center, New Delhi, 4-6 December 2013

'Introduction to Programming,' Course, IIIT Vadodra, 2013-14

Prof Manjunath V. Joshi

'Super Resolution and Auto-inpainting for Immersive Walkthrough,' Digital Restoration of Heritage Paintings and Artefact, ECSU, ISI Kolkata, 13 August 2013

'Digital Preservation of Heritage Sites,' ERTE Workshop, Ahmedabad University, Ahmedabd, 19-20 July 2014

'Immersive Navigation for Walk Through Application,' IDH meeting (Hubli), July 2014

Prof Anish Mathuria

Invited talk on 'Alphanumeric Shellcode Generator for ARM Architecture,' Third International Conference on Security, Privacy and Applied Cryptography (SPACE), Kharagpur, 22 October 2013

Prof Madhumita Mazumdar

'The Politics of Visual Representation,' Andaman Nicobar Tribal Research and Training Institute, Port Blair, 16 July 2014

'The Portman Project and the Tribal Welfare Archive in the Andaman Islands,' In *Reading Adivasi Histories*, Nehru Memorial Museum and Library, New Delhi, 13 December 2013

Prof Alka Parikh

Invited lecture on 'Qualitative and Quantitative Research Methodology – An Overview,' Women Studies Centre, University of Pune, 7-8 August 2013

Prof Radha Parikh

Keynote speaker, 'Women in Engineering Congress 2014,' WIECON'14, LDRP College, Gandhinagar, Gujarat, 16 April 2014

Invited talk, 'Workshop on Communication skills for faculty,' Amrita University, Kollam, Kerala, 12-14 July 2014

Invited talk, 'Positive Youth Development for Better Academic Performance,' International Journal of Arts & Sciences Annual Conference at Harvard Medical School, Boston, USA, 24-29 May 2014

Prof Hemant A. Patil

Invited talk on, 'Speaker Recognition,' STTP on Digital Signal Processors and Applications, Parul Institute of Engineering and Technology, Limbda, Vadodara, 16-20 December 2013

Invited talk on, 'Speaker Biometrics,' STTP on Biometrics for Secured Authentication: Fundamentals and Advances at SGGGS Institute of Engineering and Technology, Nanded, Maharashtra, 23-17 December 2013

Invited talk on, 'Wavelets in Image Processing,' STTP on Recent Trends on Image & Signal Processing, VVP Engineering College, Rajkot, Gujarat, 20-24 January 2014

Invited talk on, 'Speech Signal Processing,' Parul Institute of Engineering and Technology (PIET), Limbda, Vadodara, Gujarat, 01 March 2014

Invited talk on, 'Introduction to Speech Processing and Its Applications,' C S Patel



Institute of Technology, Charotar University of Science and Technology, Changa, Gujarat, 14 March 2014

Keynote speech on, 'Speech Signal Processing,' First International Conference on Contemporary Issues in Engineering & Technology, Mehsana, Gujarat, 19-21 March 2014

Invited talk on, 'Speech Signal Processing,' Government College of Engineering, Jalgaon, Maharashtra, 21 March 2014

Invited talk on, 'Wavelet Signal Processing,' Research Advisory Committee (RAC) meeting, G.H.Raisoni Institute of Engineering and Management, Jalgaon, Maharashtra, 21 March 2014

Invited talk on, 'Introduction to Digital Signal Processing,' R. K. University, Rajkot, Gujarat, 15 April 2014

Talk on, 'Introduction to Speech Signal Processing,' 'Speech Segmentation Algorithms for TTS,' 'Demos for Speech Signal Processing Algorithms,' CEP Workshop on Text-to-Speech Synthesis (TTS), DA-IICT, Gandhinagar, Gujarat, 16-18 June 2014

Invited talk on, 'Speech Signal Processing,' ISTE Approved STTP on Multimedia Signal Processing Theory and Applications, Nirma University, Ahmedabad, 30 June-11 July 2014

Invited talk on, 'Fundamentals of Speech Signal Processing, Analysis of Impostor Attacks in Speaker Recognition, Signal Processing in Text-to-Speech (TTS) Synthesis, Effectiveness of Speech Segmentation for ASR and TTS Applications,' STTP on Audio-Speech Processing SVNIT, Surat, Gujarat, 7-11 July 2014

Prof Laxminarayana Pillutla

'An Overview on Cognitive Radio,' short term training program (STTP), G H Patel College of Engineering and Technology, Vallabh Vidyanagar, Gujarat, 21 May 2014

Prof Sanjay Srivastava

Talk on 'Greening the Internet – Challenges, and Design Perspectives,' Forth Nirma University Conference on Engineering, NUiCONE, Ahmedabad, 30 November 2013

Prof V Sunitha

Invited talk, 'Applications of Graph Theory in Engineering,' National Seminar on Applications of Mathematics in Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, 29 March 2014

'Graph and Network Optimization,' Short Term Training Program on Enhancing Mathematical Modeling Ability Using Tools of Statistics and Operation Research, LDRP Institute of Technology and Research, Gandhinagar, Gujarat, April 2014

Invited talk, 'Introduction to Graph Theory,' TCS Visiting/Summer Student Programme, Institute of Mathematical Sciences, Chennai, June 2014

Prof Aditya Tatu

'Models of Signal Processing,' STTP on Recent trends in Image and Signal Processing, VVP Engineering College, Rajkot, Gujarat, 23 January 2014

'Chinese Remainder Theorem and Discrete Fourier Transform,' Institute of Information & Communication Technology, Ahmedabad University, Ahmedabad, 21 February 2014

PARTICIPATION IN CONFERENCES/WORKSHOPS

Prof Puneet Bhateja

Attended, Seventh India Software Engineering Conference, IIT Madras, Chennai, 19-21 February 2014

Prof Bhaskar Chaudhary

Workshop on GPU Programming and Applications, IIT Bombay, Mumbai, 24-26 February 2014

Prof Manish K Gupta

Sixth International Conference on COMMunication Systems & NETWORKS, Bangalore, 6-10 January 2014

Workshop on Mathematics of Networks, IISc Bangalore, 13-16 January 2014

Prof Sanjeev Gupta

Meeting of Vice Chancellors of Universities in Gujarat at Children's University, Gandhinagar, 8 October 2013

Seminar on Broadcasting-New Dimensions, Broadcasting Engineering Society (India) Ahmedabad Chapter, 19 October 2013

One Day Workshop on 'CST System Integrity' Computer Simulation Technology (CST), USA, Ahmedabad, 20 November 2013

'EEsof Design Forum' Agilent Technologies, USA, Ahmedabad, 2 December 2013

National Education Summit (Vibrant Gujarat), Mahatma Mandir, Gandhinagar, 10-11 January 2014

Prof Prasenjit Majumder

Conference and Labs of the Evaluation Forum, Information Access Evaluation meets Multilinguality, Multimodality, and Visualization, Valencia, Spain, 23-26 September 2013

Forum for Information Retrieval Evaluation, India International Center, New Delhi, 4-6 December 2013

Prof Anish Mathuria

Participant, FICCI-India Innovation Growth Programme, Ahmedabad, 6 September 2013

Participant, Dialogue on University Rankings, Research Evaluation, and Research Funding, British Council, New Delhi, 19 June 2014

Panelist, Roundtable on User safety on the Internet, CERC and Consumer Voice - in collaboration with Google, Consumer Education and Research Centre, Ahmedabad, 6 June 2014

Prof Gaurav Mishra

IEEE Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS), Thiruvananthapuram, Kerala, 23-24 August 2013

Prof Rutu Parekh

Workshop on Emerging Research Trends in Engineering, Ahmedabad Management Association, Ahmedabad, 19-20 July 2014

Technical Workshop on Semiconductor Measurement Challenges, Physics Department, Gujarat University, Ahmedabad, 1 March 2014

Seminar on LabVIEW and Data Acquisition Seminar, National Instruments, Fortune Inn Haveli, Gandhinagar, Gujarat, 26 February 2014

Cadence Tools Training Workshop for Digital and Analog VLSI design, IIT Gandhinagar, Gujarat, 27-28 February 2014

National Training Programme on Entrepreneurship Development & Management for Women Scientists & Technologists, Entrepreneurship Development Institute, Ahmedabad, 17-21 February 2014

Prof Alka Parikh

National Conference, 'WTO and Indian Agriculture,' Centre for WTO Studies, New Delhi, 21-22 November 2013

Prof Radha Parikh

Session Chair, International Journal of Arts & Sciences Annual Conference, Harvard Medical School, Boston, Massachusetts, 24-29 May 2014

Prof Hemant A. Patil

U-STAR Workshop, Gurgaon, 24 November 2013

Sixteenth International Oriental COCODA Conference, Gurgaon, 25-27 November 2013

Fifth International Conference on Pattern Recognition and Machine Intelligence, ISI Kolkata, 10-14 December 2013

Workshop on Image and Speech Processing, IIT Guwahati, Assam, 13-14 December 2013

Winter School on Speech and Audio Processing, IIIT Hyderabad, Hyderabad, 17-20 January 2014

International Conference on Signal Processing and Communications, IISc Bangalore, Bangalore, 22-25, July 2014

Organised, CEP workshop on 'Speech Signal Processing,' DA-IICT, Gandhinagar, Gujarat 14 October 2013

Organised, CEP workshop on Text-to-Speech (TTS) Synthesis, DA-IICT, Gandhinagar, Gujarat, 16-18 June 2014

Prof Laxminarayana Pillutla

Participant, International Conference on Signal Processing and Communications, IISc. Bangalore, 22-25 July 2014



Prof Manoj Kumar Raut

Eleventh Annual Conference on Theory and Applications of Models of Computation, Department of Computer Science and Engineering, College of Engineering, Anna University, Chennai, 11-13 April 2014

CONFERENCE PROGRAM COMMITTEE

Prof Minal Bhise

National Conference on Computer and Communication Research, NCCCR Conference, Vadodara Institute of Engineering, Vadodara, 24-25 January 2014

Third IEEE International Advance Computing Conference (IACC), Ghaziabad, February 2013

Prof Manik Lal Das

Program Committee Member, Second International Workshop on Cloud Computing & Identity Management, Mysore, 22-25 August 2013

Prof Deepak Ghodgaonkar

Member of Advisory Committee, First International Conference on Contemporary Issues in Engineering and Technology, Merchant Engineering College, Basna, Mehasana, Gujarat, 19-21 March 2014

Prof Manish K Gupta

Organizing Committee Member, Publicity Sub-Committee, Sixth IEEE/ACM Comsnets, Bangalore, 6-10 January 2014

Prof Sanjeev Gupta

Technical Program Committee Member, International Workshop on Sensor Network and Wireless Communication, AD Patel Institute of Technology, Vallabh Vidyanagar, Gujarat, 9-11 October 2013

National Advisory Committee Member, Second National Conference on Innovative and Emerging Technologies, Smt. S.R. Patel College of Engineering, GTU, Mehsana, Gujarat, 3-4 January 2014

Prof Prasenjit Majumder

Program Committee, Thirty Seventh Annual ACM Special Interest Group on Information Retrieval Conference, Gold Coast, Queensland, Australia, 6-11 July 2014

Program Committee, Conference and Labs of the Evaluation Forum, Information Access Evaluation meets Multilinguality, Multimodality, and Visualization, Valencia, Spain, 23-26 September 2013

Program Committee, First International Conference, MIKE 2013, Tamil Nadu, India, 18-20 December, 2013,

Program Committee, Forum for Information Retrieval Evaluation, India International Center, New Delhi, 4-6 December 2013

Prof Anish Mathuria

General Co-Chair: Thirrd International Conference on Security, Privacy and Applied Cryptography (SPACE), Kharagpur, 19-23 October 2013

Prof Suman K. Mitra

Publication Chair, National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics, Jodhpur, 18-21 December 2013

Program Committee, Fifth International Conference on Pattern Recognition and Machine Intelligence, Machine Intelligence Unit, Indian Statistical Institute, Kolkata, 10-14 December 2013

Prof Rutu Parekh

International Scientific Committee Member, International Conference on Artificial Intelligence and Communication Engineering, Macao, China, 20-21 May 2014

International Scientific Committee Member, International Conference on Communication Technology and Application, Beijing, China, 19-20 Aug 2014

Prof Hemant A. Patil

Sixteenth International Oriental COCODA Conference, Gurgaon, India, 25-27 November 2013

Technical Committee Member, Workshop on Image and Speech Processing, IIT Guwahati, 13-14 December 2013

SPONSORED RESEARCH PROJECTS

Prof Amit Bhatt

High Performance Computing using ARM Architecture Based Snapdragon SoC Cluster

(with Krait processors), Sponsored and technically supported by Qualcomm

Prof Bhaskar Chaudhury

Establishing CUDA teaching center, DA-IICT, Gandhinagar, Sponsored by nVIDIA Corporation, USA

Prof Rahul Dubey

'Water Quality Monitoring,' IEEE Foundation Grant

Prof Prasenjit Majumder

'Cross-Lingual Information Access,' Funded by Department of Information Technology, Government of India

Prof Biswajit Mishra

Enabling Technologies for Personalised Healthcare, Seed Fund, DAICT

HONORARY WORK

Prof Asim Banerjee

Member, Jury for the Diploma Projects of PG students, National Institute of Design, Gandhinagar and Ahmedabad

Member, Board of Studies, Nirma University, Ahmedabad

Member, Faculty of Engineering of Nirma University, Ahmedabad

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

Member, Faculty of Engineering – Computer Science and Engineering, UV Patel College of Engineering, Ganpat University, Mehsana, Gujarat

Member, RPS Committee for PhD Scholars, Computer Science and Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat

Member, RPS Committee for PhD Scholars, Electronics and Communication Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat

Examiner, PhD Scholar of Electronics & Communication Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat

Supervisor, PhD Scholars, Ganpat University, Mehsana, Gujarat

Prof Bhaskar Chaudhary

Member, LXcat Team, The Plasma Data Exchange Project

Prof Sanjeev Gupta

External Expert, Promotion Interview Committee (Scientist-SB to Scientist-SC and Scientist-SC to Scientist-SD), Space Applications Centre (SAC), Department of Space, Government of India, Ahmedabad

Member, Advisory Committee, PG Research Center for Mobile Computing & Wireless Technologies, Gujarat Technological University (GTU), Ahmedabad

Member, Board of Studies, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat

Member, Board of Studies SATCOM (Satellite Communications) Course conducted by Centre for Space Science and Technology Education in Asia and the Pacific (Affiliated to the United Nations), IIRS Campus, Dehradun & SAC Campus, Ahmedabad

Member, Board of Governors, Government Engineering College (GEC), Gandhinagar, Gujarat.

Member, Academic Council, CU Shah University, Wadhwan City, Surendranagar, Gujarat

Member, Board of Studies, Indus University, Ahmedabad

External Expert, selection of faculty at Institute of Technology, Nirma University, Ahmedabad

External Expert, selection of faculty, Gujarat Technological University (GTU), Ahmedabad

Subject Expert, faculty selection at Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat

Member, Doctoral Progress Review Committee, Gujarat Technological University (GTU), Ahmedabad

Expert Member, Research Progress Committee, Faculty of Doctoral Studies and Research, Nirma University, Ahmedabad

PhD Reviewer, Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat

Reviewer, ME Dissertations, Gujarat Technological University (GTU), Ahmedabad

Subject Expert, Review the academic performance of ME in Wireless and Mobile Computing, Gujarat Technological University (GTU), Ahmedabad



PhD Thesis Examiner, Evaluation of Doctoral thesis at Mukesh Patel Institute of Technology of Narsee Monjee Institute of Management Studies, Mumbai

Coordinator, Cooperation with SAC under the MoU for co-operation in research and academic activities, Space Applications Centre, Department of Space, Government of India, Ahmedabad

Expert Member, Committee for Techno-Commercial Evaluation of 220 GHz Vector Network Analyzer, Institute for Plasma Research, Department of Atomic Energy, Government of India, Ahmedabad

Member, Antenna Test and Measurement Association

Member, Agilent's Test Advisory Panel

Member, Editorial Board, International Journal on Advanced Communication Technology

Prof Anish Mathuria

Member, DeitY Committee, 'e-Authentication Standards,' Ministry of Communications and Information Technology, Government of India

Member, Faculty Selection Committee, Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad

Prof Suman K. Mitra

Member, Academic Committee, Indian Institute of Information Technology (IIIT), Vadodara Vadodara, Gujarat

Member, Departmental Academic Committee, Department of Electronics and Communication, Sardar Vallabhbhai National Institute (SVNIT), Surat, Gujarat

Member, Departmental Academic Committee, Department of Information Technology, Dharmsinh Desai University Nandiad, Gujarat

Prof Rutu Parekh

Session Chair, Signal Processing and VLSI, INDICON 2013, Impact of Engineering on Global Sustainability, 13-15 December, IIT Bombay, Mumbai

Prof Alka Parikh

Joint Director, Sarvang Utkarsh, A Micro Health Insurance Mutuals Organization working for the Slum Dwellers in Pune and Mumbai

Prof Radha M. Parikh

Member, Rabbani Educational Board (runs Rabbani School), Gwalior, Madhya Pradesh

Member, Advisory Committee, ENVIS, Center of Excellence in Environment Education

Prof V Sunitha

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

VISIT TO INSTITUTES/ INDUSTRIES

Prof Minal Bhise

DST Project Review, NRDMS Department of Science and Technology, New Delhi, August 2013

NSDI OGC Technical Meeting Planning, GISE Lab, IIT Mumbai, October 2013

Research Progress Committee Meeting, Computer Science Department, Nirma University, Ahmedabad, January 2014

Research Progress Committee Meeting, Computer Science Department, Nirma University, Ahmedabad, July 2014

Prof Amit Bhatt

Marwari College, Lecture on "ARM vs Intel Architecture, July 2014

Keynote speech, Pondicherry Engineering College R&D forum, July 2014

Prof Manish K Gupta

Attended the workshop on 'Mathematics of Networks,' IISc Bangalore, January 2014,

Invited talk, 'A Story of Natural Engineering Samsung,' Advanced Institute of Technology (SAIT) Lab, January 10, 2014, Bangalore

Prof Sanjeev Gupta

Expert Member, Research Progress Committee (RPC), Faculty of Doctoral Studies and Research, Nirma University, Ahmedabad, August 3, 2013

Faculty Board of Studies Meeting, Charotar University of Science and Technology, Changa, Gujarat, September 7, 2013

Meeting of Board of Governors of Government Engineering College, Gandhinagar with TEQIP Project IIM Ahmedabad, September 27, 2013

Meeting of Board of Governors, Government Engineering College, Gandhinagar, October 8, 2013, January 16, 2014 and March 12, 2014

Selection/Interview Committee Member for selection of faculty (Assistant and Associate Professors), Gujarat Technological University (GTU), Ahmedabad, October 10, 2013

Received on behalf of DA-IICT Fourth Annual "Leadership Award for Outstanding Contribution to VLSI/Embedded Design Industry 2013 – Academic Institution" awarded by SiliconIndia and Mentor Graphics, Bengaluru, December 6, 2013

External Expert of SAC Promotion Interview Committee (Scientist-SB to Scientist-SC), Space Applications Centre, Department of Space, Government of India, Ahmedabad, December 10, 2013

Meeting of Board of Governors of Government Engineering College, Gandhinagar with Industry Experts on December 13, 2013

Reviewer of MTech Dissertations (Phase-I), Charotar University of Science and Technology, Changa, Gujarat, December 28, 2013

Faculty Board of Studies Meeting at Charotar University of Science and Technology, Changa, Gujarat, December 28, 2013

Member of PhD Selection Committee, Gujarat Technological University, Ahmedabad, January 20, 2014 and February 12, 2014

Meeting of Board of Governors, Government Engineering College, Gandhinagar with TEQIP Performance Audit (carried out by Prof. YV Joshi), January 24, 2014

External Examiner for MTech Theses, Gujarat Technological University, Ahmedabad, March 21, 2014 and March 31, 2013

Expert Member of Research Progress Committee, Gujarat Technological University, Ahmedabad, March 28, 2014

Member of Board of Studies, Indus University, Ahmedabad, April 18, 2014

Member of the Committee for Revision of Syllabus of Master of Engineering Program, Gujarat Technological University, Ahmedabad, April 19, 2014

PhD Thesis Examiner at Mukesh Patel Institute of Technology of Narsee Monjee Institute of Management Studies, Mumbai, April 29, 2014

External Expert of SAC Promotion Interview Committee (Scientist-SC to Scientist-SD), Space Applications Centre, Department of Space, Government of India, Ahmedabad, May 6, 2014

Examiner for MTech theses at Charotar University of Science and Technology, Changa, Gujarat, May 17, 2014

PhD Reviewer at Charotar University of Science and Technology, Changa, Gujarat, May 17, 2014 and July 1, 2014

Subject Expert for faculty selection at Charotar University of Science and Technology, Changa, Gujarat, June 3, 2014

Expert Member of Committee for Techno-Commercial Evaluation of 220 GHz Vector Network Analyzer, Institute for Plasma Research, Department of Atomic Energy, Government of India, Ahmedabad, June 13, 2014 and July 23, 2014

Subject Expert for selection of faculty (Professors and Associate Professors) at Institute of Technology, Nirma University, Ahmedabad, June 25, 2014

Reviewer of ME Dissertations (Poster Presentation/Final Phase), Gujarat Technological University, Ahmedabad, July 2, 2014

Subject Expert for selection of faculty (Adhoc Assistant Professors) at Institute of Technology, Nirma University, Ahmedabad, July 3, 2014

Prof Pokhar M Jat

Expert to ERP upgradation process, Gujarat Urja Vikas Nigam Limited

Prof Prasenjit Majumder

Technical University of Valencia, Spain, September 2013

Prof Hemant A. Patil

North Maharashtra University (NMU), Jalgaon (MS) on January 11, 2014 to conduct the Ph.D. Open Public Defense Seminar of Mr. Manish P. Deshmukh on his Ph.D. thesis titled, 'Relevance of Pattern Recognition in Forensic Science Laboratory.'

G.H.Raisoni Institute of Engineering and Management (GHRIEM), Jalgaon (MS), to attend Research Advisory Committee (RAC) meeting during March 21-22, 2014

Gujarat Technological University, as Expert to review the work of PG and Doctoral students during March 20, March 27, March 29, 2014

Indira Gandhi Centre for Atomic Research (IGCAR) Kalpakkam during June 05-08, 2014 for IDH-Hampi DST Project

PRSG meeting on February 05, 2013 to report the progress of DeitY sponsored consortium project

PRSG meeting on February 05, 2013 to report the progress of DeitY sponsored consortium project

DeitY Workshop on Phonetic Engine Project March 09-10, 2013 at Thapar University, Patiala to report the progress of DeitY sponsored consortium project

Prof Aditi Nath Sarkar

Sixth convocation of Satyajit Ray Film & Television Institute, Kolkata, 2 May 2014

Prof V Sunitha

Institute of Mathematical Sciences, India, May-June 2014

ANY OTHER SIGNIFICANT CONTRIBUTIONS

Prof Asim Banerjee

Co-ordinated and mentored six groups for PG and UG students who were working on six projects as virtual teams with students of Drxel University, USA. The project was to develop a collaboration tool for the Client. Microsoft USA was one of the stakeholders of the project, April to July 2014

Prof Rahul Dubey

DA-IICT, Introduction of new lab equipment for core course on “Embedded Hardware Design”. Added new Raspberry Pi & Beaglebone Black single board computers, Texas Instruments, May to June 2014

Prof Manish K Gupta

External reviewer, Spark-Up Idea Fund, iCreate (The International Centre for Entrepreneurship and Technology), November 2013 and May 2014

Prof Suman K Mitra

IEEE Gujarat Section, Past Chair 2014-2015

Prof Radha Parikh

Conducted a one-day symposium (along with a committee of 4) on Positive Youth Development (PYD) for faculty/ students of neighbouring engineering colleges (Ahmedabad/Gandhinagar) at DAIICT, December 2, 2013



Faculty and Staff Updates

FACULTY

The faculty consisted of 47 regular faculty members and 11 visiting faculty on full time basis besides 24 adjunct faculty members who taught specialized courses in all Programs. The list of faculty members is available at Annexure 3.

New Faculty

The following faculty have joined the Institute during the year 2013-14

1. Naresh Jotwani joined as Visiting Professor on 02 January 2014
2. Bhaskar Chaudhury joined as Assistant Professor on 06 January 2014
3. Rutu Parekh joined as Assistant Professor on 02 December 2013
4. Amishal Modi joined as Assistant Professor on 05 August 2013
5. Srinivasa Rao Zinka joined as Assistant Professor on 15 January 2014
6. Nabin Kumar Sahu joined as Assistant Professor on 01 February 2014

Faculty Resignations

1. Ashok Amin, Professor (wef 31 May 2014)
2. Preetida Jani, Associate Professor (wef 31 December 2013)

STAFF

Staff Resignations

1. Rajakumar A, Junior Professional Assistant (wef 13 September 2013)
2. Bipin Raval, Library Trainee (wef 14 May 2014)
3. Sangita Karia, Secretary Registrar's Office (wef 02 June 2014)



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 diverse international and national level competitions, and won several prizes, or reached the finalist teams, and upheld DA-IICT as prominent among the top engineering institutions in the country.

SYNAPSE-2014

Synapse, the Annual Techno-Cultural Festival of DA-IICT, was organized during February 27 to March 2, 2014. The theme of Synapse-2014 was Celebrating a Decade of Legacy and it proved to be the biggest student event held in the history of the Institute. 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, 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-2014. The plethora of technical and cultural events that Synapse-2014 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

Concours 2013, the Annual Inter-College Sports Festival of DA-IICT was held during October 17 - 20, 2013 at DA-IICT. Major General Dilawar Singh, Additional Director General of NCC, Gujarat, Dadra Nagar Haveli, Diu & Daman was the Chief Guest at the opening ceremony while Shri. Shyam Sundar, Director, Sports Authority of India, Gandhinagar, Gujarat, was the Chief Guest at the closing ceremony. This event saw a

participation by about 1300 students (including 170 girl students) from 31 colleges from and outside Gujarat.

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. The Wing Cricket Tournament, an intra-cricket competition between wings of various Halls of Residence (HOR) in both HOR-Men and HOR-Women was conducted from August 15 to September 4, 2013. The Wing Football Tournament was conducted from September 2 to 18, 2013.

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 it is 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 throughout 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 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 Gandhiji that they had read in their school history textbooks.

To enrich the students with various hobbies such as theatre, dance, instrumental and vocal music, and art workshops were conducted which acted 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; it was organized on February 20, 2014. 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 musical talent of the students of the Institute was at its best during the much awaited event '**Raaga**,' which was organized on February 15, 2014. The musicians proved their mettle against the rest when many prizes were won in the categories of Indian Solo, Indian Group, Duet, Western Solo and Western Group. '**Bollyrock**' 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, and 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. A fabulous two day event, Drama Night 2013 was organized on September 19 and 20, 2013 with the active participation of 13 teams (5 felicity – musical plays and 8 stage plays) presenting plays of varying genre including suspense, thriller, dramatic, comedy and sarcasm on social issues.

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 a non-profit student's group at which strives for bringing smiles on the faces of underprivileged people. Apart from regular teaching projects at

Blind School, Orphanage for HIV positive kids, Government Primary Schools, it organised mass events on Independence Day, Republic Day and Gandhi Jayanti. One event worth mentioning was the Independence Day Celebration with the children from Deaf and Dumb School, Blind School and Orphanage. These children were given food and chocolates and were taken from the Orphanage to visit Science City in Ahmedabad. They were brought to DA-IICT campus for supper and were dropped back at their places of residence.

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. The magazine covers articles by the students and the alumni on various sections – Campus Clamour, Self Science Scion, Sports, Techyon, Books, Films, Music, Food, Freeze Frame, GNA, Vuelo, Random Noise, Point Counterpoint, Warps and Wefts, Summer Chilliers, etc. The first edition of the magazine came out in the year 2005 and 52nd edition (July 2014) is the latest one. A Press Club under the guidance of a faculty mentor is constituted every year by the Student Body Government. One of the students is elected as the Editor of the Magazine and other student members of the Press Club serve as Section Heads of various sections of the magazine. Sandeep Martia (Student ID: 201001113) was the Editor of the magazine in the academic year 2013-14.

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 team-work. A Salsa workshop was held by dance Club in unison with the Technical Committee from September 15 to 17, 2013. The teacher for the workshop was Gauri Parashare from Vijay Atma's Latin Dance Club, Pune. A Dance Nite was conducted on January 21, 2014.

The **Debate Club** has grown remarkably since its inception in 2009. Besides conducting its weekly debates and intra-college debate competitions, the



club has organised a Youth Parliament and an inter-college Parliamentary Debate.

Apart from these non-academic and social activity clubs, a few groups are seriously 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. Notable among these Clubs were **The Aryans, Web Dev Club and The Programming Club**. The Programming Club conducted DA-IICT Intra Programming Contest which was an online event, where students have 6 problems to solve in 3 hours of time on Online Judge Platform SPOJ.

The newly introduced **Cubing Club** conducted various sessions on different methods of solving the 3x3 Rubik's cube and the notations of the cube. The session introduced them to various types of puzzles including the Pyraminx, Mirror cube and the regular 3x3, 4x4, 5x5, etc.

The **Hostel Management Committee (HMC)** organized the first ever Hostel Cleanliness Drive and Cleanest Room and Wing Competitions, during March 25–31, 2014 in both the Halls of Residence (HOR) – Men and Women.

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.

Summer School 2014: The fourth version of the Summer School 2014 was conducted at DA-IICT from June 5 to 14, 2014. This year summer school was focused on game development using Unity 3D as a software tool and Microsoft Kinect to make the games gesture controlled. Budding engineers from all over India got a common platform to explore, learn, and innovate. Students got a chance to play with the latest technologies and build something interesting.

i.Fest'13 - Connected Thinking: The aim of I.Fest, Annual Technical Festival organized by the IEEE student Branch of DA-IICT during October 25–27,

2013 was to create magic by bringing the right mix of minds, perspectives and ambition with the fusion of technology and fun. Connected Thinking was about stretching ourselves to bring new perspectives that challenge conventional thoughts and solutions. It was about bringing the best of ideas and technologies together. The i.Fest'13 had refreshing challenges, inspiring interactions and ingenious concepts and most importantly, fun 'n' frolic. It spans domains like app development (i.app), robotics (i.bot), i.rubble, i.quiz, i.design, i.decipher, i.capture, i.maze, B2B, Treasure Hunt and Customised Game Controller, etc. Various events like robo race, Line follower bot competition, technical quiz, online programming contest, business plan competition, treasure hunt etc., were also organized during the three day event. Apart from the competitions, an expert talk by Mr Nishad Kamat, who was Senior Director of Engineering at Yahoo was also organised. The hangout was joined by several IEEE members from Mumbai, UP, Bangalore, Delhi Section and Chandigarh Sections.

DA-IICT hosted a two-day (November 16 – 17, 2013) **National Workshop on Cyber Security**. The workshop covered issues such as current trends in cyber laws, cyber crime and its prevention, cyber security for firms and individuals, cyber security breach and hacking. Mr. Avinash Kadam, Advisor to India Task Force and Information Systems Audit and Control Association (ISACA) was the keynote speaker. Other speakers were Mr. Muktesh Chander, Joint Commissioner of Police, Delhi; Dr. Amit Kumar, CEO of BioAxis, Bengaluru, and Mr. HP Sanghvi, DFS, Gandhinagar.

Google Developers Group of DA-IICT organized a three-day event **conf.kde.in** at DA-IICT during February 21-22, 2014. It provided a platform for world's best developers and contributors in the open source community. This event, organized in Gujarat for the first time, saw the participation of over 250 students from 9 States in the country. It featured talks and workshops by international experts from four countries on coding and developing applications. Mr. Kevin Ottens, a renowned KDE hacker explained why one needs to go beyond hacking.

An overview of IEEE Industrial Application Society (IAS) and its activities was briefed by Mr. Peter Magyar, the IAS CMD Chair and Mr. Blake Llyod, the IAS President. This event was also instrumental in laying the foundation of two new sister chapters of IAS, one in G H Patel College Of Engineering & Technology and the other in LDRP Institute of Technology and Research.

Tech Nite an 'Only for Girls' event and was organized in the girls' hostel post-midnight keeping in mind the hostel culture. The night started with a TED talk by Sheryl Sandberg to motivate the students how enthusiastic can be the technological work.

Ms. Ruzan Khambatta delivered an inspirational talk on Social Entrepreneurship and Women Empowerment.

Mr. Prabodh Sirur, HR Manager, CGI Bangalore delivered a talk on HR Skills and Functions.

STUDENT ACHIEVEMENTS

Awards

Saksham Gupta (BTech 2012 and Brijesh Patel (BTech 2011) were awarded the prestigious Myron Zucker Travel Award given by the IEEE Industrial Application Society (IAS) for academic and overall excellence. The award enabled them to attend the IEEE Industry Application Society (IAS) Annual Meeting 2013 held at Orlando, Florida, USA from October 6, 2013.

Vaibhavi Desai, (BTech 2011) won Google Student Ambassador, DA-IICT (Year 2013-14), Google Summer of Code 2014 student at Systers, an Anita Borg Institute (May - August 2014) and Google Anita Borg Memorial Asia-Pacific Scholarship (July 2014).

Kesha Shah (BTech 2011) was selected as a scholar for Google Anita Borg Memorial Scholarship Asia-Pacific 2014. She is also a Co-founder, Women Who Code (WWC) - Gujarat, a global non-profit which empowers women to pursue careers in technology, advocates for gender diversification in work place and expands career opportunities for women in technology sector. She was also selected as Mentor for Google Code-In contest to introduce pre-university students (age groups 13-17) to the many kinds of contributions that make open source software development possible.

Zeel Shah (BTech 2010) and Raj Buddhdev (BTech 2011) won 1st prize in 2013 Industry Application Society's (IAS) Web Chapter Contest, in which global Institutes participated.

Yash Shah (BTech 2011) was invited by Google to attend largest developer conference Google I/O held during June 25-16, 2014 at San Francisco, USA. He was invited by Ryerson Futures and Ryerson University to Toronto in May 2014 to experience the market opportunities there. He was invited to deliver a talk at FOSSASIA 2014 in Cambodia in February 2014. He was also invited to deliver a talk at Akademy 2013 in Spain,

which is the annual world summit of KDE, one of the largest Free Software communities in the world. He also attended Mozilla Summit 2013, California (Santa Clara), US where he was invited on the basis of his contribution to Mozilla Open Source.

Jineet Doshi (BTech 2011) won the IEEE Student Enterprise award 2013. He also won the 'Outstanding Volunteer Award' from the IEEE Gujarat Section. He received a grant of \$1000 for his project 'ICT-based Solutions for Education in Rural India'. The project involves teaching under-privileged kids in remote areas of the country through a network of tablets connected to the internet through MiFi devices. It involves establishing the necessary hardware infrastructure followed by content delivery through custom interactive apps, animated videos and web services. The proposed model is highly scalable, self sustaining, easy to implement and inexpensive. His research paper "ICT-based Solutions for Education in Rural India - A Case Study" has been selected for presentation at the IEEE GHTC (Global Humanitarian Technology Conference) 2014 to be held in Silicon Valley, California, USA.

Priyansh Trivedi (BTech 2012) and Yash Shah (BTech 2011) were ranked #1 by Google Developers Group (GDG) in India in 2014 in terms of number of events organized in last 6 months.

Mayank Hinger, Manan Dhawan and Arkit Vora, (BTech 2011) won the first prize at IIT Bombay Techfest (held during January 3-5, 2014) in the event "Appsurd" for developing an android application. They received Certificates and an Acer Iconia W5 tablet convertible to laptop.

Aditi Bhatnagar (BTech 2012) was selected as Google Student Ambassador from DAIICT for the year 2013-14.

Saurabh Patel (BTech 2012) was selected in Google Summer of Code 2014 (May 19–August 18, 2014).

Hardik Avaiya (MSc-IT 2013) secured First Position in XENESIS - 2014, a National Level Symposium in the event X-Treme organized by LDRP-IRT, Gandhinagar on March 27, 2014.

Smit Kotadiya and Nigam Shah (MSc-IT 2013) were the winners in IT Quiz held at Rollwala College, Ahmedabad.

Smit Kotadiya (MSc-IT 2013) received appreciation letters for vulnerability reporting from Sony, SPOJ Email Brain, Almamater, Ferrari, HackerRank, HackerEarth and skyscanner.



Abhishek Shukla (BTech 2010) was selected for the grant of Short Service Commission in the flying branch of Indian Air Force; his training will commence at Air Force Academy, Dundigal, Hyderabad on July 7, 2014.

DA-IICT participated for the second time, as the only Indian team, in the *International Artificial Intelligence Angry Birds Competition*, 2014 hosted by the European Conference on Artificial Intelligence, 2014 at, Prague, Czech Republic and came sixth world-wide. The team was led by Prof. Sourish Dasgupta with Savan Vaghela (BTech 2011), Vishwa Modi (BTech 2011), Dhruvi Shah (BTech 2011), and Hitarth Kanakia (BTech 2012). The objective of the competition is to develop a software robot that can understand complex, unknown structures and devise a strategy on-the-fly to destroy them in an optimal way within limited time.

DA-IICT is planning to participate again in the upcoming competition to be hosted by International Joint Conference on Artificial Intelligence, 2015, Buenos Aires, Argentina. We hope to get multiple teams (drawn from the Introduction to *Programming* course in autumn semester 2014) representing both DA-IICT as well as India.

DA-IICT was also awarded the Outstanding IEEE Student Branch Chapter Award 2013 as well as the first prize in IEEE Industrial Application Society's (IAS) Web Chapter Contest.

SPORTS, CULTURAL AND OTHER ACHIEVEMENTS

At the Sports Festival of LNMIIT Jaipur (January 22 to 27, 2014), DA-IICT's Football team and Chess team made it to the semi-finals. Deep Moradia secured second position in Squash Team event.

DA-IICT Girls Table Tennis Team under the captainship of Lavanya Gupta (BTech 2012) got the third place at Shaurya-2013, the Inter-College Sports Meet held at IIM Ahmedabad.

DA-IICT Girls Table Tennis Team under the captainship of Lavanya Gupta (BTech 2012) got the 1st place at PetroCup-2013, the Inter-College Sports Meet held at PDP, Gandhinagar. Lavanya Gupta was awarded the certificate for 'Best Player of the Tournament (Girls).'



DA-IICT Girls Table Tennis Team under the captainship of Lavanya Gupta (BTech 2012) got the 1st place at Sports Fest organized by GNLU.

DA-IICT's Girls Basketball Competition was first runners up in Concours 2013.

DA-IICT Theatre Group participated at Blithchron, the techno-cultural event of IIT Gandhinagar under the event named '*Antaragnee*' (Street Play) on January 25, 2014. The play titled '*Humari Bewakoofi*' secured second position and was appreciated by the judges. DA-IICT students Abhishek, Parth, Kaushik won in solo event; Pal and Lavanya in duet; and Dance Club were also the winners in the respective categories.

Mayank Ladha (BTech 2012) came 1st in Instrumental Solo Category - in Raaga (Music Night) 2014.

Swarit Ameta (MSc-IT 2013) got second position in Raaga 2014 for Solo Singing.

Rishav Thakker, Shubham Saxena, Harsh Nisar, Zubin Kapadia, Mayank Ladha and Rakesh Kumar stood 1st in Western Group Category in Pentagram 2014 organized by GNLU.

Rishav Thakker, Shubham Saxena, Harsh Nisar, Zubin Kapadia, Mayank Ladha and Rakesh Kumar stood second in Western Group Category - in Synapse 2014.

The startup of Yash Shah and Nikit Saraf (BTech 2011) Areysun Online Pvt. Ltd. which is incubated at DCEI, got an incubation by Digital Media Zone and office space at Bombay Stock Exchange, Mumbai.

Anupama Panchal co-founded the venture 'Gridle,' a start-up incubated at the Centre for Innovation, Incubation and Entrepreneurship (CIIE) at IIM Ahmedabad.

Harshkumar Chawada (BTech 2009) designed a low-cost device of real-time water quality monitoring node that works on solar energy.



Jenil Malavia (MDes 2011) designed a real-time information system model which guide Ahmedabad commuters on bus information through a simple SMS.

DA-IICT Alumni Tuhin Paul and Indira Negi conceptualized a friendly guide “Menstupedia” which helps girls and women stay healthy and active during their periods. They have won multiple awards for their year-old startup.

INTERNSHIPS AND PUBLICATIONS

Kshitij Sharma (BTech 2012) was selected Google Summer of Code (GSOC) 2014; he did a project titled ‘Web Driver System Tests for Joomla CMS’ at an organisation JOOMLA!.

Ganesh Iyer (MTech 2013) got selected for Google Summer of Code 2014 with Emory University as his mentoring organization for his project on ‘Biomedical Data Exploration and Visualization.’

Shrishail S. Gajbhar (PhD Scholar) was awarded Rs.10,000 as prize for best paper award on ‘Image Denoising using Redundant Finer Directional Wavelet Transform’ at the Fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2013 organized by the Indian Institute of Technology, Jodhpur.

Nirmesh J. Shah (PhD Scholar) was awarded US\$ 800 as travel grant from IEEE Signal Processing Society (SPS) to attend and present paper in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2014, Florence, Italy during May 4 to 9, 2014.

Nirmesh J Shah, Bhavik Vachhani and Hardik B. Sailor (PhD Scholars), ‘Effectiveness of PLP-based Phonetic Segmentation Algorithms for Speech Synthesis,’ *Proceedings of International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Florence, Italy, pp. 270-274, May 4 to 9, 2014.

Shalin Shah (BTech 2011) and Dixita Limbachiya (PhD Scholar) presented a research paper titled ‘DNAcloud: A Tool to Store Big Data on DNA’ at Foundations of Nanoscience Conferenc (FNANO’14) organised at Snowbird, Utah, USA by the Duke university during April 11-14, 2014.

Shalin Shah and Vijay Dhameliya (BTech 2011) presented a research paper titled ‘ImPatho-An Image

Processing based Pathological Decision Support System for Disease Detection and an Novel Tool for Overall Health Governance’ at IEEE R10 HTC 2014 conference.

Shikhar Kumar Gupta and Foram Meghal Joshi (BTech 2011) were invited to the Foundations of Nanoscience Conference (FNANO’14) organised at Snowbird, Utah, USA by the Duke University during April 11-14, 2014 to present their research work on a software 3DNA (a tool for DNA sculpting).

DA-IICT CENTRE FOR ENTREPRENEURSHIP AND INCUBATION (DCEI)

DA-IICT Centre for Entrepreneurship and Incubation (DCEI) aims to encourage students with an entrepreneurial bent of mind to come up with innovative ideas and channelise their efforts to give births to new ventures based on ICT products. DCEI has collaborations with entrepreneurship communities like National Entrepreneurship Network and Centre for Innovation, Incubation and Entrepreneurship, IIM Ahmedabad.

DCEI periodically organises workshops, seminars and talks by entrepreneurs and people from diverse backgrounds. It also facilitates visits to various research and design Institutes across the country to enable students to obtain ideas for new business ventures. It tries to arrange for part-time assistance, short-term and long-term internships with entrepreneurial ventures. With this, DCEI attempts to give the students a first-hand exposure to the challenges faced by entrepreneurs through real-world projects with startups.

The following companies are incubated by DCEI:

Company Name:	Alma Connect Solutions Pvt. Ltd.
Founders:	Swapnil Khandelwal & Rubish Gupta
Comapny URL:	www.almaconnect.com
Company Name:	PlayPower Labs India Pvt. Ltd.
Founder:	Kishan Patel
Comapny URL:	www.playpowerlabs.com
Company Name:	Areysun Online Pvt. Ltd.
Founders:	Abhi Desai & Yash Shah
Comapny URL:	www.areysun.com
Company Name:	Appbin Labs Pvt. Ltd.
Founders:	Siddharth Kothari & Sagar Chandrana
Comapny URL:	www.getappbin.com

Alumni Activities and Achievements

As part of its ongoing commitment to reach, engage and connect to its graduates, the DA-IICT Alumni Association organized the fourth Alumni Day at the Institute campus on 15 February 2014. An announcement of the Alumni Day was carried on various online channels including almaconnect, facebook and google Alumni group. This was followed by personal invites to those who indicated their interest in attending the event. The programme was held in two parts. The first was an interaction between the faculty and the alumni in the morning and the second an interaction between the alumni and current students in the evening.

The first session began with the welcome address by Prof. Rahul Muthu the Convener, Alumni Board. The imminent launch of the DA-IICT Alumni Card was announced. The alumni (who were not able to visit their *alma mater* due to their prior commitments) had the opportunity of live interaction through a webcast (VMukti) on the Alumni Day.

The open discussion addressed the need of establishing an Alumni Account to which an alumni can contribute; this fund can be utilized to support the students to travel to attend the national/international conferences to present their research papers. Alumni's help was also sought to assist the students in summer internships.

The Alumni Day celebrations concluded with the distribution of mementos followed by a group photograph. Later, the alumni also got an opportunity to participate in the informal Fun events and the Raaga Night.

Apart from this meet, the alumni activities also took place at various cities in India including NCR, Mumbai, Bengaluru, Ahmedabad and Hyderabad and in USA during the course of the academic year.



Resource Centre

The Resource Centre (RC) has become a fuel-station for academic and research activities of the Institute. Whenever faculty and students need any piece of information for their academic requirements, they first search the RC resources. These resources include, printed books, ebooks, journals, bound volumes, online databases and videos. The RC continues to play a catalytical role in maintaining academic excellence at the Institute.

eResources are increasing rapidly and usage is spreading among the user-community. The student community still perceives the RC as a place to study with concentration in the academic ambience of books, journals, and cubicles surrounding them. It is all reflected in the occupancy statistics. The RC print-book collection is on rise covering not just ICT studies but also humanities, literature, history and social sciences (refer to Additions to Collection Table below). Programmes and events spread throughout the year supported teaching, learning, research and scholarly activities of the Institute. New methods were adopted to provide available information in structured format for effective utilization and to facilitate the end-user. Based on the suggestions received from users and analysis of Management

Info Stats (MIS), changes were effected in the section layouts. That had helped the users take advantage of the RC infrastructure effectively. Services like Current Contents, Content Page Service, Newspaper Clippings continued to keep users updated, not only in their subjects of interest but also in interdisciplinary branches and society in general. The 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 the RC's website to facilitate users to find information from a single window. 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 of this report are given below.

Print and Audio Visual Collection

The RC collection includes books, conference proceedings, reference books, CDs, VCDs, DVDs etc. The following Table presents the additions during the academic year 2013-14.

Additions to Collection

Collection Type	Added in 2013-14	Total as on 31 July 2014
Books	768	29576
Bound Volumes of Journals	284	2134
Theses and Dissertations	58	435
Audio Visual Resources	75	3667
Total Collection	1185	35812

Print-Journals

In the academic year 2013-14, the RC renewed print-journal subscriptions of **168** journals of which **95** were from the **9** academic disciplines and the remaining from interdisciplinary and allied subjects.

Digital Resources

The RC subscribed to the following 14 digital resources collection during the year under review. The RC Committee has declared it as a core collection to support Institute's academic and research activity.

- ACM Digital Library
- ASA Digital Library
- American Institute of Physics (AIP) Online Journals

- American Physical Society (APS) Online Journals
- ASABE Technical Library
- ASIS&T
- IEL Online Library (IEEE*Xplore*)
- indiastat.com
- JSTOR Archive
- LNCS Online Collection
- ITU Recommendations
- Publications from USENIX
- ScienceDirect (Computer Science Collection)
- Springer Online Journals

These online resources contain more than 5000 peer-reviewed/specialised e-journals and statistical databases.



This year RC also purchased perpetual access to following three eBooks collection. These collections offer online access to more than 9450 eBooks

- IEEE-MIT Press eBooks Library
- IEEE-Wiley eBooks Library
- Springer eBooks, Computer Science collection 2013

Circulation Services

During 2013-14, over 17593 documents were issued to users. These documents included books, reference books, current and bound volumes of journals and audio - visual materials and were mainly circulated among the faculty, students and staff members of the Institute.

Resource Sharing (Inter-Library Loan Service)

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. During the reporting period, the RC borrowed 24 books and lent 10 books to other Institutions. It also received 152 research papers or articles from professional journals required by our faculty and delivered 148 research papers/articles to other Institutions.

To further support academic and research activity, the RC has become a member of Development Library Network (DELNET) and Ahmedabad Library Network (ADINET). These memberships entitle access to all the databases created by this network, and support on Inter-Library Loan and Document Delivery Services.

Institutional Memberships

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), Ahmedabad Management Association (AMA), American Society of Agricultural and Biological Engineers (ASABE), British Library, Ahmedabad, 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 among others.

Project Reports

The RC has been maintaining a collection of all PhD theses, MTech dissertations and MDes Projects (both print and digital formats) submitted by students of DA-IICT. Efforts made to collect, organize and provide access to all the BTech project reports of the last batches were successful and now 961 digital copies of the Project Reports are added to the Institutional Repository. These reports are now available in digital form for consultation. A separate batch-wise catalogue providing details of each project along with an abstract is now available on the internet through the RC website.

Research Information

To promote and support the Institute's research undertakings, the 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 2 lectures delivered by prominent persons. The list with links to presentations and video recordings of all possible events is now made available through RC website.

Preview Room Facility

The RC has a preview room which is equipped with multi-media projector, DVD player, audio-amplifier with high-quality sound system to view in-group the education materials in support of teaching and learning. Faculty from Humanities and ICT-ARD extensively used the facility and arranged lectures. Special Interest Groups like MyKindOfMusic too used Preview Room for their monthly experience-sharing meetings. Occasionally Placement Cell of DA-IICT arranged group-presentations for visiting companies at the Preview Room. Preview Room is also used

for Academic Orientation programmes for freshers. More than 82 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 the student community. A new service i.e., 'Topical Display on Course-related Titles' was introduced during the year to create awareness about collections available in the RC and thereby promote reading habits among students. Also, 5 new bibliographies were compiled on different subjects to promote the use of collections.

Digital Repository of Scholarly Resources (DRSR)

The DRSR which was launched last year to collect, organize, preserve, provide access to, and promote

dissemination of the scholarly output of the 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 the faculty, researchers, and students of the Institute to share their research work with wider community. Currently it hosts close to 2053 resources.

Infrastructure

A new PC was added to Preview Room infrastructure to further facilitate use of equipment.

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 22-25 July 2014. The sessions were conducted in twelve batches of 75 minutes each.

Visitors to RC

Institution	No. of visitors	Date
Library Automation Team of three people from Centre for Environment Education (CEE), Ahmedabad	3 Professionals	29 January 2014
Department of Library & Information Science, S P University, Vallabh Vidyanagar, Gujarat	22 Students + 4 Faculty	21 February 2014



Internship

As part of its regular internship program for fresh Library Science Graduates, the RC recruited three MLISc graduates in August 2013 for one year internship with monthly stipend. These fresh graduates were given training in all areas of LIS work including handling of digital resources.

Staff Training

For efficient delivery of services, domain-centric staff training is needed to upgrade their knowledge and skills. During 2013-14, the following staff members attended the workshops/seminars.

- Satish Deshpande, Prasanna Kumar, Saurabh K Prajapati attended one day seminar on 'Redefining Libraries to Create Next Generation Libraries'

organized by Ahmedabad Library Network ADINET) and INFLIBNET at Entrepreneurship Development Institute of India, Ahmedabad, on 10 August 2013.

- Shashikumara A. A. participated in 'MANLIBNET 2013 – International Conference on Entrepreneurial Approaches to Librarianship' held at Entrepreneurship Development Institute of India (EDI), Ahmedabad during 26-28 December, 2013.

Paper Published

- Shashikumara A. A., "Designing and Development of Academic Library Website using Joomla Open Source Software: A Gateway for Effective Library Services," in *Proceedings of Monark Technology Conclave 2014*, Hasmukh Goswami College of Engineering, Ahmedabad, India, 27-28 February 2014, pp. 404-408. ISBN: 9788192917306



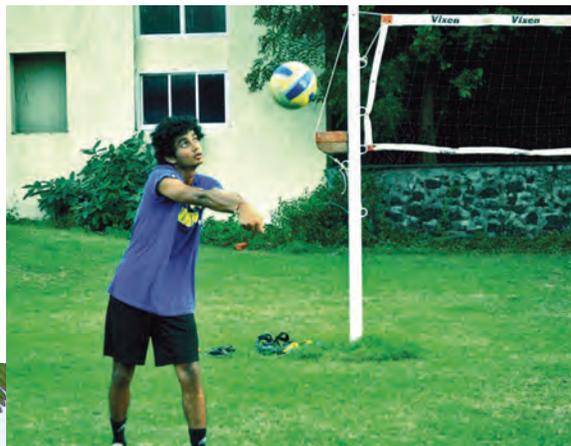
Infrastructure

The DA-IICT regularly upgrades the infrastructure facilities to facilitate better teaching and learning and comfortable stay for the students. The DA-IICT campus is eco-friendly and fully networked with 1GBps optical fiber cable connectivity between various buildings and having 1GBps internet bandwidth.

During the reporting year, the Institute acquired additional ICT resources worth Rs.40.00 lakh. They included procurement of four servers with higher-end configuration to perform simulation, parallel computation and high performance computing. A new closed circuit television system (CCTV) covering the strategic locations of the campus was installed. The other ICT additions were Cyberoam, UTM Firewall, Adobe creative cloud software, Microsoft Volume Licences and Microsoft Dream Spark exclusively for students, Oracle software

Licences, Printers, Desktop computers, Laptops, Network up-gradation and expansion of wireless connectivity. In the Laboratory new hardware such as COMBLOCK boards, Raspberry-PI boards with required accessories, Texas instrument make open source Linux-computer Beagle Bone Black boards, Intel Galileo Development Boards, Mojo FPGA Development Board, portable EEG machine with 32 channel and Xilinx Vivado System Edition software were added. To support teaching, a portable Audio amplifier system for tutorial room, projection systems and an iBall make device Take Note A414 were procured.

The construction of the hostel with 48 rooms for girl students and renovation of wash rooms of boy's hostels were completed. A new walkway between hostel and food court and an access pathway to the Play Ground were constructed.





Annexure 1

MANAGEMENT

Academic Council

Prof S C Sahasrabudhe, Chairman	Director, DA-IICT
Shri K Narayan	Management Consultant, Reliance ADA Group, Mumbai
Prof Surendra Prasad	Director, Indian Institute of Technology Delhi, New Delhi
Prof David Koilpillai	Professor & Dean (Planning) Indian Institute of Technology Madras, Chennai
Shri Suresh Rangachar	President, Reliance Communications Limited, Mumbai
Prof V P Sinha	Professor, DA-IICT, Gandhinagar
Prof Ganesh Devy	Professor, DA-IICT, Gandhinagar
Prof Ashok Amin	Professor, DA-IICT, Gandhinagar
Prof Suman K Mitra	Dean (Academic Programs), DA-IICT, Gandhinagar
Shri Soman Nair, Secretary	Executive Registrar, DA-IICT, Gandhinagar

Finance Committee

Prof S C Sahasrabudhe, Chairman	Director, DA-IICT, Gandhinagar
Shri K Narayan	Management Consultant, Reliance Group, Mumbai
Shri Surendra Pipara	President, Reliance Group, Mumbai
Prof Suman K Mitra	Dean (AP), DA-IICT, Gandhinagar
Shri Soman Nair, Secretary	Executive Registrar, DA-IICT, Gandhinagar

INSTITUTE OFFICIALS

Director

Prof S C Sahasrabudhe

Executive Registrar

Shri Soman Nair

Deans

Academic Programs

Prof Suman K Mitra

Chief Librarian

Shri Satish Deshpande (Consulting Librarian)

Research and Development

Prof Anish Mathuria

Head (HR & Administration)

Shri Hasendrasinh Jhala

Students

Prof Sanjeev Gupta

Resource Centre Committee

Prof M V Joshi, Convener
 Prof Gautam Dutta, Member
 Prof Preetida V Jani, Member
 Shri Satish Deshpande, Member Secretary

ICT Committee

Prof C Vijaykumar, Convener
 Prof Amit Bhatt, Member
 Prof Anjan Ghosh, Member
 Mr Nimesh patel, Member
 Prof Rahul Dubey, Member
 Mr Rajendra Shah, Member

Placement Committee

Prof Ranendu Ghosh, Convener
 Prof Amit Bhatt, Member
 Prof Asim Banerjee, Member
 Prof Prabhat Ranjan, Member
 Prof V Sunitha, Member

Web Committee

Prof L Pillutla, Convener
 Prof Jaideep Mulherkar, Member
 Prof Minal Bhise, Member
 Prof Sourish Dasgupta, Member

CEP Committee

Prof Manjunath V Joshi, Convener
 Prof Mehul Raval, Member
 Prof B N Hiremath, Member
 Prof Mazad Zaveri, Member

Annual Report Committee

Shri Satish Deshpande - Convener
 Prof Suman Kumar Mitra - Member
 Prof Anish Mathuria - Member
 Prof Sanjeev Gupta - Member
 Prof BN Hiremath - Member
 Prof Madhumita Mazumdar - Member
 Shri Soman Nair - Member

Disciplinary Committee

Dean – Students, Convener (ex-officio)
 Warden, Gents Hostel (ex-officio)
 Warden, Ladies Hostel (ex-officio)
 Dy. Registrar (ex-officio)
 Student members (nominated)

Gender Cell

Prof Binita Desai, Convener
 Ms Geeta Mehta, Member
 Prof Radha Parikh, Member
 Prof Anjan Ghosh, Member
 Dr Neeta Shah (Director, Gujarat Infomatics Limited)
 - External Member
 Student Representatives: PG rep, third year rep,
 second year rep, first year rep

Student Activities Council

Prof Mukesh Tiwari, Sports Counsellor
 Prof Madhumita Mazumdar, Cultural Counsellor

Alumni Board

Dean – Students, Convener (ex-officio)
 Prof Anil Roy, Member
 Prof Asim Banerjee, Member
 Prof Rahul Muthu, Member



Annexure 2

THESES, PROJECTS AND REPORTS

PhD Theses

1. Rawal, Divyang, Channel estimation and soft OSIC detection in coherent MIMI-OFDM systems using QRD techniques (802.16 m); 84 p.; 2014. (Supervisor: Chakka, Vijay Kumar)
2. Joy, Arun, Adaptive channel estimation and loading for OFDM based two-way relay systems; viii, 78 p.; 2014. (Supervisor: Chakka, Vijay Kumar)

MTech Theses

1. Adarsa, S., Analysis of voice biometric attacks: detection of synthetic vs. natural speech; ix, 56 p.; 2014. (Supervisor: Patil, Hemant A.)
2. Agrawal, Madhulika, Retrieval of legal documents using query expansion; vii, 41 p.; 2014. (Supervisor: Majumder, Prasenjit)
3. Ahir, Sagar J., Spectrum sensing in cognitive radio networks; ix, 37 p.; 2014. (Supervisor: Pillutla, Laxminarayana)
4. Bhayani, Snehal, I., Pose estimation from one conic correspondence; x, 99 p.; 2014. (Supervisor: Tatu, Aditya)
5. Dalal, Tejas D., HDL implementation and study of ANN architecture mapping onto multiple processing nodes; ix, 39 p.; 2014. (Supervisor: Zaveri, Mazad)
6. Dave, Jay, Secure SQL with access control for database as a service model; viii, 67 p.; 2014. (Supervisor: Das, Manik Lal)
7. Dhoot, Kuldeep, Post-processing of speech signal for prosody modification and improvement; xv, 90 p.; 2014. (Supervisor: Patil, Hemant A.)
8. Dubey, Mohnish, Text negation normalization; 47 p.; 2014. (Supervisor: Dasgupta, Sourish)
9. Geethakrishnan, P., Reconstruction of 1-D signal from the undersampled version; viii, 59 p.; 2014. (Supervisor: Joshi, Manjunath V.)
10. Goyal, Aakash, Integration of restful services in an agro-advisory system; vii, 36 p.; 2014. (Supervisors: Banerjee, Asim and Chaudhary, Sanjay)
11. Hosamani, Santosh S., Formal semantic simplification of wh query in english; 47 p.; 2014. (Supervisor: Dasgupta, Sourish)
12. Jain, Archit, Image compression using DCT and compressive sensing (CS) theory; viii, 61 p.; 2014. (Supervisor: Joshi, Manjunath V.)
13. Jain, Priyanka, Tikitaka based attack strategy for soccer simulation 2D; ix, 40 p.; 2014. (Supervisor: Dasgupta, Sourish)
14. Jampani, Sharmila, Adaptive caches: a smart way to reduce leakage power dissipation in cache memories; viii, 34 p.; 2014. (Supervisor: Bhatt, Amit)
15. Kansagara, Vishal J., Characterization of non-ISA factual sentences in english; vii, 36 p.; 2014. (Supervisor: Dasgupta, Sourish)
16. Kashyap, Raiyani, Virtual machine migration for back-end mashup application; viii, 57 p.; 2014. (Supervisors: Jat, P.M and Chaudhary, Sanjay)
17. Khandhar, Mihir, Query optimization of subject oriented database through compilation and execution; vii, 62 p.; 2014. (Supervisor: Divakaran, Srikrishnan)
18. Kosti, Ronak, Estimating depth in single image by learning through neural network; ix, 57 p.; 2014. (Supervisors: Tatu, Aditya and Raval, Mehul S.)
19. Lakshmipriya, V.K., Acoustic analysis of musical pillars of vitthala temple, Hampi; x, 66 p.; 2014. (Supervisor: Patil, Hemant A.)
20. Mordiya, Chetankumar, Ontology development and query execution for an agro-advisory system; vi, 61 p.; 2014. (Supervisors: Bhise, Minal and Chaudhary, Sanjay)
21. Nagar, Ravi Ashokkumar, Numeral identification of handwritten indian languages; vii, 43 p.; 2014. (Supervisor: Mitra, Suman K.)
22. Nair, Pradeep, Fault tolerance schemes for mission critical application; xi, 67 p.; 2014. (Supervisor: Dubey, Rahul)
23. Patel, Chirag Rajendrabhai, All- digital delay-line based ultra wide band transmitter architecture in 0.18 μm CMOS; ix, 56 p.; 2014. (Supervisor: Mishra, Biswajit)
24. Patel, Jayendra, HDL implementation of a node of bayesian polytree inference; ix, 41 p.; 2014. (Supervisor: Zaveri, Mazad)
25. Patel, Jayesh, Implementation of different branch prediction schemes on fabscalar generated superscalar processor; viii, 47 p.; 2014. (Supervisor: Bhatt, Amit)
26. Patel, Shail, Performance analysis and comparison of community based node co-operation in mobile social networks; viii, 35 p.; 2014. (Supervisor: Srivastava, Sanjay)
27. Patil, Abhijit Tukaram, Carrier recovery using costas loop for use in software defined radio; viii, 56 p.; 2014. (Supervisor: Dubey, Rahul)

28. Rajkotiya, Prashant, Data aware hybrid partitioning technique and query execution for RDF data; 77 p.; 2014. (Supervisor: Bhise, Minal)
29. Raju, Kalidindi Vijaya Rama, Dynamic reconfiguration of cache memories for leakage power reduction; xi, 36 p.; 2014. (Supervisor: Bhatt, Amit)
30. Rangani, Jaydeep, HDL implementation of associative memory based instruction predictor for power reduction; viii, 41 p.; 2014. (Supervisor: Zaveri, Mazad)
31. Reddy, Syamala R. Krishna, Performance improvement of an out of order processor by decreasing branch mispredictions; viii, 41 p.; 2014. (Supervisor: Bhatt, Amit)
32. Sanghani, Hardik Jayesh, Design of custom wireless protocol for signal transmission inside space equipment; xii, 99 p.; 2014. (Supervisor: Dubey, Rahul)
33. Sarupuri, Bhuvaneswari, Estimating depth from monocular video under varying illumination; vii, 44 p.; 2014. (Supervisor: Tatu, Aditya)
34. Savaliya, Ankitkumar P., Fully digital ultra low power capacitive sensor interface; viii, 35 p.; 2014. (Supervisor: Mishra, Biswajit)
35. Shah, Bhavik, Structure indexed vertical partition and query execution for RDF data; vii, 66 p.; 2014. (Supervisor: Bhise, Minal)
36. Shah, Harsh Kaushikbhai, Understanding user intent in community question answering; vii, 41 p.; 2014. (Supervisor: Majumder, Prasenjit)
37. Shah, Twinkle, Image epitome generation and its applications; vii, 41 p.; 2014. (Supervisor: Mitra, Suman K.)
38. Sharma, Shubham, Vocal tract length normalization for automatic speech recognition; xii, 80 p.; 2014. (Supervisor: Patil, Hemant A.)
39. Tiwari, Tripti, Physical layer security secrecy capacity analysis for multiuser networks using joint SVD-GSVD precoding technique; viii, 31 p.; 2014. (Supervisor: Chakka, Vijaykumar)
40. Trivedi, Nirav P., Full custom design of a 0.18 micron sub-threshold processor; ix, 40 p.; 2014. (Supervisor: Mishra, Biswajit)
41. Undhad, Ankur G., Vowel landmark detection for speech recognition; xvii, 89 p.; 2014. (Supervisor: Patil, Hemant A.)
42. Vyas, Krunal D., Design of a low noise amplifier for UWB range of 5.5-8.5 GHz; ix, 36 p.; 2014. (Supervisor: Gupta, Sanjeev)

MDes Project Reports

1. Goswami, Vrushin, Hospital navigation system, focus: Ahmedabad; 79 p.; 2014. (Supervisor: Desai, Binita)
2. Haritha, V.V., Theyyam: the dancing colours of caste, focus: North Malabar (Kerala); 69 p.; 2014. (Supervisors: Pandya, Vishvajit and Mazumdar, Madhumita)
3. Patel, Nupur, Gaatha: a tale of crafts, focus: Nirona, Kutch; 55 p.; 2014. (Supervisor: Desai, Binita)
4. Pukadyil, Roshini, Siddis of Gujarat: contrasting perspective; 36 p.; 2014. (Supervisor: Desai, Binita)
5. Shah, Namita, Patola: the ikat of Gujarat; 100 p.; 2014. (Supervisors: Mazumdar, Madhumita and Raje, Nitin)
6. Sharma, Nitish, City trot, focus: old Delhi; 89 p.; 2014. (Supervisors: Pandya, Vishvajit and Raje, Nitin)

MSc ICT-ARD Project Reports

1. Bijarniya, Seeta; Kumari, Anita and Dhameliya, Vijay Database Management and Route Map System for Akshaya Patra Foundation; 18 p.; 2014. (Supervisors: Sharan, Girja and Punjani, Hemal)
2. Jonnala, Veerendra, ICTs for Agricultural Information dissemination & Database development for Jan Kalyan Mandal Yojana (JKMY) Scheme; 21 p.; 2014. (Supervisors: Ghosh, Ranendu and Jha, Chetan Nand)
3. Mishra, Awadhesh, Integrated Pest Management System; 18 p.; 2014. (Supervisor: Mishra, Gaurav)
4. Pahuja, Gunjan, Development of Website for Social Discussion and Information Retrieval : form Creation and Data Analysis; 21p.; 2014. (Supervisor: Mishra, Gaurav)
5. Parashar, Sourabh and Bahada, Ramnivas, Designing and Executing Strategies to Make Project "Khedut Saathi – Farmer's Friend" a Financially Viable Model; 27 p.; 2014. (Supervisor: Hiremath, B. N.)
6. Shah, Munjal, ICT Infrastructure and Service Management of Kisan Call Center; 20 p.; 2014; (Supervisors: Ghosh, Ranendu and Jani, Ravi)

Annexure 3

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
Bhateja, Punnet PhD (Computer Science) Chennai Mathematical Institute, India	Formal Methods used for Testing and Verification
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
Chaudhury, Bhaskar PhD (Computational Physics) Institute for Plasma Research, Gandhinagar Gujarat	Computational Plasma Physics, Computational Electromagnetics, High Performance Computing, Scientific Data Management
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
Ghosh, Anjan* PhD (Electrical Engineering) Carnegie Mellon Univ., USA * On leave	Optical computing, optical communications and networking, photonics, meta-materials, chaos, sensors, sensor networking, MEMS, instrumentation, e-health, open-source software, engineering education

Ghosh, Ranendu PhD (Soil Science and Agricultural Chemistry) Indian Agricultural Research Institute, New Delhi	Satellite remote sensing, GIS, satellite communication applications for rural development, sustainable agriculture system.
Gupta, Manish K. PhD (Mathematics) IIT Kanpur	Information processing in biology, bio-molecular (DNA, membrane, cell) computing, coding and information theory, cryptology, quantum computing, computational, structural and systems biology and bioinformatics
Gupta, Sanjeev PhD (Communication Engineering) Queen's University, Belfast, UK	Smart antennas, communication and radar systems, RF/microwave applications
Hiremath, B. N. PhD (Agricultural Economics) University of Kentucky, USA	Sustainable rural livelihoods, food and livelihood security at household level, participatory approaches, rural development, natural resources and environmental economics, research methodology.
Jani, Preetida V. PhD (Electrical Engineering) University of Technology, Sydney, Australia	Wireless and cellular networks, mobile networks, ubiquitous connectivity, data compression algorithms, network security, wireless systems, cognitive radio
Jat, Pokhar Mal PhD (Computer Science and Engineering) ML Sukhadia University, Udaipur	Databases, software design and semantic web
Joshi, Manjunath V. PhD (Electrical Engineering) IIT Bombay	Computer vision, image processing, super-resolution, restoration, signal processing, digital communication
Kollipara, Bharani PhD. (English Literature) English And Foreign Languages University, Hyderabad, AP.	Literature and Philosophy, Ancient Greek Philosophy, Political Theory, Aesthetics
Majumder, Prasenjit PhD (Computer Science), Jadavpur University, Kolkata	Information retrieval, natural language processing, digital libraries
Mathuria, Anish PhD (Computer Science) University of Wollongong, Australia	Computer security
Mazumdar, Madhumita PhD (Modern History) University of Calcutta, Kolkata	Social history of science, technology and medicine in India, cultures of communication and media
Mishra, Biswajit PhD (Electrical & Electronics Engineering, University of Southampton, UK)	Ultra low power and subthreshold circuit methodologies, very low voltage circuits for wireless sensor networks digital IC design, power management for energy harvesters signal processing hardware for color image processing geometric algebra and novel hardware
Mitra, Suman Kumar PhD (Computer Science) Indian Statistical Institute, Kolkata	Image processing, pattern recognition, fractal, Bayesian network, digital image watermarking
Mulherkar, Jaideep PhD (Mathematics) University of California, Davis, USA	Mathematical physics, quantum computation and information
Muthu, Rahul PhD (Computer Science) Homi Bhabha National Institute, Mumbai	Graph theory, algorithms
* On leave	



Nagchoudhuri, Dipankar* PhD (Electrical Engineering) Michigan State University, USA	VLSI design, CMOS circuits and technology, biomedical signal processing chip design
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, 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
Raut, Manoj Kumar PhD (Mathematics) IIT Madras	Combining decision procedures, theorem proving, knowledge representation and reasoning, logic
Roy, Anil PhD (Physics) IIT Delhi	Fiber optics and optical communication, quantum optics, nanotechnology, semiconductor devices
Sahasrabudhe, S. C. PhD (Communication/Signal Processing) Leningrad University, USSR	Communications, signal and image processing and microprocessor applications.
Sarkar, Aditi Nath M.A. (South Asian Languages and Civilizations) University of Chicago, USA	Literature, religion, cultural history, south Asian civilization studies
Sahu, Nabin Kumar PhD (Mathematics) IIT Kharagpur	Applied Functional Analysis, Operator Theory, Variational Inequality, Variational Inclusion Problems
Sinha, V. P. PhD (Electrical Engineering) University of London, UK	Digital signal and image processing, theory of communication, discrete mathematics and logic, modern Fourier theory
Srivastava, Sanjay PhD (Physics) University of California, Los Angeles, USA	Computer networks, protocol modelling, simulation
Sunitha, V. PhD (Mathematics) IIT Madras	Algorithms, discrete mathematics, graph theory, parallel and distributed computing, theoretical computer science, interconnection networks
Tatu, Aditya PhD (Image Analysis) University of Copenhagen, Denmark	Mathematical image processing, shapes, image features
Tiwari, Mukesh PhD (Optical Science and Engineering) University of New Mexico, USA	Statistical physics, non linear dynamics, quantum transport, surface science
Vijaykumar, C.* PhD (Communication Engineering) REC Tiruchirapalli	Digital signal processing, estimation theory, wireless communications, speech processing

* On leave

Zaveri, Mazad

PhD (Electrical and Computer Engineering) | Portland State University, Oregon, USA

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

Zinka, Srinivasa Rao

PhD (Microwave Engineering) | Chung-Ang University, Seoul

Phased Array Antennas, Microwave Filter Design, Frequency Selective Surfaces

Visiting Faculty**Name of the Faculty****Areas of Interest****Garg, Shweta**

PhD (English) IIT Rorkee India

Food and Cultural Studies, Performance Studies, Creative Writing, Literature of the Indian Diaspora

Jotwani, Naresh

PhD (Computer Science) Rice University Houston, TX (USA)

Solar energy, engineering design, economics.

Mishra, Gaurav

PhD (Information and Communication Technologies for Rural Development) | University of Reading, UK

E-Governance ICT for development, communication for development, rural development, human-computer interaction

Mukerji, Maitrayee

Fellow (Rural Management), Institute of Rural Management, Anand (IRMA), MSc (Computer Science), University of Allahabad

Management Information Systems (MIS), Strategic Information Systems (SIS), ICTs and Development, e-Governance

Modi, Amishal

M.A. (English) The Ohio State University, USA

English language Teaching, victorian literature, indian poetry in english

Parekh, Rutu

PhD (Electrical Engineering Sp. in Nanoelectronics) Shrebrooke University, Sherbrooke, Quebec, Canada

Nanoelectronics, nano device-CMOS hybridization, design and simulation, circuit design, modeling and simulation of next-generation memory (PCM), nanofabrication.

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

The following adjunct faculty members were associated with the teaching work during the academic year 2013-14.

Name of the Faculty**Areas of Interest****Banerjee, Nandini**

PhD (Economics) | R. D. University, Jabalpur

Organisational behaviour, economics, management

Banerjee, Soumitra

MBA | Indore University

Business strategy and management



Chaturvedi, Manish M.Tech-(ICT) DA-IICT, Gandhinagar	Networks, Transportation
Dasgupta, Kuntala B Sc Calcutta University West Bengal	Rabindranath Sangeet
Dandekar, Prakash M.Tech-Electrical Engineering, Bombay	Embedded wireless networked systems and product design; Realtime software application development for robotics, automotive, industrial automation and natural resources monitoring
Garg, Gagan Ph.D. (Computer Science) Indian Institute of Science, Bangalore	Information theory, cryptography, number theory
Iyer, Vishal CFA, CFA Institute, USA M.S.-(Finance) ICAI University, Hyderabad	Financial Management
Jha, Sunita MTech (Biochemical Engineering & Biotechnology), IIT Delhi	Biochemistry & Biotechnology
Krishnamurthi, G. PGDM IIM Bangalore	Project management, management and agribusiness
Krishnamurthy, Sujatha PhD	Business Administration
Kumbar, T. S. PhD (Library and Information Science) Gulbarga University	Technical Communication
Patel, Narendra Diploma in Visual Communication National Institute of Design, Ahmedabad	Animation
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
Raval, Nikhil MBA (Strategic Management) California State University, USA	Business management, strategy and finance
Sengupta, Amit MBBS, MD (OBS-GYN), PhD, Biomedical Engineering, IIT Delhi	Medical electronics, instrumentation, imaging, affordable technology, woman's health
Yagnik, Jignasu MBA, Gujarat University	Management Information System
Khetan, Lokesh MDes (CD), DA-IICT	
Joshi, Pranav B Sc., Diploma in Computer Science, C-DAC	Project Management in IT Network Coding, Mobile Social Network, Delay Tolerant Network
Zunnun A Raof Narmawala M.Tech(ICT) DA-IICT, Gandhinagar	

Annexure 4

LISTING OF STAFF MEMBERS**Registrar**

Soman Nair, Executive Registrar

Administration & HR

Hasendrasinh Jhala, Head - HR & Admin

Rajesh V Patel, Estate Engineer

Sudhir Dave, Commercial Officer

Bhavesh Shah, Stores Assistant

Kiritkumar Pandya, Administrative Assistant

Gyanesh Pandya, HR Assistant

Niketa P Raval, Receptionist-cum-Office Assistant

Keshurbhai M Zala, General Assistant

Bahadursinh M Vagehla, Driver

Accounts

Geeta Mehta, Chief Accounts Officer

Santosh Pandit, Account Assistant

Director/Dean/Faculty Offices

Venugopal PR, Secretary to Director

Sangita Karia, Secretary, Registrar's Office

Abhilash Kumar Bhaskaran, Secretary Registrar's office

Satyabir Singh, Secretary to Dean - AP

Mukesh Thaker, Secretary to Dean - R & D

Deepa Poduval, Secretary, Faculty Block 2

Geeta S Nair, Secretary, Faculty Block 4

Academic Programs

Jigar P Yagnik, Deputy Registrar (Academic)

Jalpesh Pandya, Assistant Registrar (Academic)

Dinesh S Prajapati, Senior Programmer

Jainik Patel, Academic Assistant [contractual]

Placement & Continuing Education Programme (CEP)

Anjali Kulshrestha, Placement and CEP Officer

Anuradha Srivastava, Secretary

Resources Centre

Satish Deshpande, Consulting Librarian

Prasanna Kumar Muduli, Jr Prof Assistant

Saurabh Prajapati, Jr Prof Assistant

Shashaikumara A A, Jr Prof.Assistant

Nitesh Singh Pawar, Professional Assistant

Surendra Kumar Soni, Library Trainee

Trinayan Boroghain, Library Trainee

Virendra Sathwara, Library Trainee

Vipul Banker, Library Trainee

Manish Goswami, Library Attendant

Mukesh Shrimali, Library Attendant [contractual]

Computer Systems

Nimesh B Patel, System Engineer

Prabhunath Sharma, Model Maker

Laboratory

Rajendra B Shah, Lab Superintendent

Ramesh Prajapati, Laboratory Assistant

Krupa V Pandya, Laboratory Assistant

Sanjay Bariya, Laboratory Assistant

Suryakant Goswami, Laboratory Assistant

Krunal G Patel, Laboratory Assistant

Firoja Sheikh, Laboratory Assistant

Bhargav Patel, Laboratory Assistant

Naresh J Patel, Laboratory Assistant

Sports

D S Karmyal, Sports Officer

Shirish Varma, Sports Assistant

Hostels

Jitendra Parmar, Hostel Supervisor

Sawankumar Sachaniya, Hostel Supervisor

Project Staff 2013-14

1. Ankur Undhad, Project Personnel Category - B (DPGPE sponsored project wef 15 May 2013) [Supervisor : Prof Hemant Patil]
2. Anusha Pathak, Senior Research Fellow (DDHIB)



- sponsored project wef 1 June 2013) [Supervisor: Prof Vijaykumar Chakka]
3. Ashish Phophalia, Research Associate (TRFRPV sponsored project wef 4 January 2013) [Supervisor : Prof Suman K Mitra]
 4. Lakshmipriya V K., Junior Research Fellow (IDHIII sponsored project wef 15 May 2013) [Supervisor : Prof M V Joshi]
 5. Shubham Sharma, Project Personnel Category - B (DPGPE sponsored project wef 15 May, 2013) [Supervisor: Prof Hemant Patil]
 6. Mahammadi Zaki, Project Personnel Category-A (TTS Indian Languages Phase II wef 15 May 2013) Supervisor: Prof. Hemant Patil
 7. Tanvina Patel, Project Personnel Category-A (TTS Indian Languages Phase II wef 21 May 2012) Supervisor: Prof. Hemant Patil
 8. Nirmesh Shah, Project Personnel Category-B (TTS Indian Languages Phase II wef 16 May 2012) Supervisor: Prof. Hemant Patil
 9. Hardik Sailor, Project Personnel Category-B (TTS Indian Languages Phase II wef 16 May 2012) Supervisor: Prof. Hemant Patil
 10. Maulik Madhavi, Project Personnel Category-A (DIT Deve.of Proso. Guided Engine for Searching speech Data base in Indian Languages wef 02 April 2012) Supervisor: Prof. Hemant Patil
 11. Vibha Prajapati, Project Personnel Category-D (DIT Deve.of Proso. Guided Engine for Searching speech Data base in Indian Languages II wef 02 April 2012) Supervisor: Prof. Hemant Patil
 12. Janki Akhiani, Project Personnel Category-C (DIT Deve.of Proso. Guided Engine for Searching speech Data base in Indian Languages II wef 02 April 2012) Supervisor: Prof. Hemant Patil
 13. Alpesh Sathwara, IT Manager in CEID Project (CEID Project wef 11 April 2011) Supervisor Prof: Anish Mathuria
 14. Vaibhav Joshi, Senior Research Fellow (wef 18.6.12 to 31.12.13 Project Securing biometric data using data hiding techniques") Supervisor: Prof. Mehul Raval
 15. Krutarth Patel, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor : Prof Anil Roy]
 16. Komal Agrawal, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor : Prof Prasenjit Majumder]
 17. Vipul Garg, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor : Prof Prasenjit Majumder]
 18. Abhishek Shah, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor : Prof Prasenjit Majumder]
 19. Abhishek Shukla, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor: Prof Anil Roy]
 20. Akshat Garg, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor : Prof Anil Roy]
 21. Biman Gujral, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor : Prof Prasenjit Majumder]
 22. Dharak Shah, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor : Prof Prasenjit Majumder]
 23. Ishan Jain, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor: Prof Prasenjit Majumder]
 24. Neel Shah, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor: Prof Prasenjit Majumder]
 25. Pratik Jain, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor : Prof Prasenjit Majumder]
 26. Priyal Jain, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor: Prof Anil Roy]
 27. Purvi Koringa, Senior Research Fellow (TRFRPV sponsored project wef 12 June 2013) [Supervisor: Prof Suman K Mitra]
 28. Rohan Kohli, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor: Prof Anil Roy]
 29. Rohan Nagrani, Junior Research Fellow (SOASD sponsored project wef 22 January 2013) [Supervisor: Prof Sanjay Chaudhary]
 30. S Nivedita, Junior Research Fellow (DDHIB sponsored project wef 1 June 2013) [Supervisor : Prof. Vijaykumar Chakka]
 31. Shirish D Jadav, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor: Prof Anil Roy]
 32. Varanasi Aswin Ram, Project Assistant (VAGT sponsored project wef 1 June 2013) [Supervisor: Prof Anil Roy]
 33. Vipul Garg, Part Time Research Assistant (CLIA sponsored project wef 15 May 2013) [Supervisor: Prof Prasenjit Majumder]



Annual Report Committee

Prof Anish Mathuria | Prof Sanjeev Gupta | Prof B N Hiremath | Mr Satish Deshpande | Prof Suman Mitra | Prof Madhumita Mazumdar | Mr Soman Nair

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