Shri. Dhirubhai Hirachand Ambani
(28th December, 1932 – 6th July, 2002)
Founder Chairman, Reliance Group
Founder Chairman, DA-IICT
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1. Management
2. Theses, Projects and Reports
3. Faculty
4. Staff
Board of Governors

President
Shri Anil D. Ambani  Chairman, Reliance ADA Group, Mumbai

Members
Prof. R. Natarajan  Former Chairman, All India Council for Technical Education and former Director, Indian Institute of Technology Madras, Chennai
Prof. B. S. Sonde  Former Professor, Indian Institute of Science, Bengaluru and former Vice Chancellor, Goa University
Prof. D. Narasimha Reddy  Director, CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
Prof. K.S. Dasgupta  Director, DA-IICT, Gandhinagar
Smt. Anju Sharma  Principal Secretary, Department of Higher and Technical Education, Government of Gujarat, Gandhinagar
Shri Hareet Shukla  Secretary, Department of Science and Technology, Government of Gujarat, Gandhinagar
Shri Suresh Rangachar  Dhirubhai Ambani Institute of Information and Communication Technology Society, Mumbai
Shri Dharmendra Bhandari  Dhirubhai Ambani Institute of Information and Communication Technology Society, Mumbai
Shri Manikantan Iyer  Reliance Communications Limited, Mumbai
Shri Punit Garg  Reliance Communications Limited, Mumbai
Shri N. K. Mangla  Reliance Communications Limited, Mumbai
Shri Gurdeep Singh  Reliance Communications Limited, Mumbai
Shri Shrenik Vaishnav  Reliance Communications Limited, Mumbai
Prof. Suman K Mitra  Dean (Academic Programs), DA-IICT, Gandhinagar
Prof. Sanjeev Gupta  Dean (Research & Development), DA-IICT, Gandhinagar

Secretary
Shri Soman Nair  Executive Registrar, DA-IIICT, Gandhinagar
I am pleased to present, in the next pages, the report on our performance and achievements during the academic year 2018-19. We have significant achievements to be proud of. The faculty began their work on developing curricula to launch the M.Sc (Data Science) and B.Tech (Mathematics and Computing) programs from the academic year 2020-21. The growing reputation of faculty in providing innovative and practical solutions to technology issues has been receiving steady attention of the State and National Government Agencies. This is resulting in a surge in sponsorship of research projects. There has been a steady increase in the number of Industry Recruiters visiting the campus to recruit our students which authenticates that our graduates are well accepted by the Industry. The majority of the campus infrastructure development activities initiated in the previous years were completed during the reporting year.

The faculty, staff and students work tirelessly to ensure that the Institute enhances its academic and research vigor and I am thankful to them. I am grateful to the members of the Governing Body and Reliance ADA Group for their guidance in managing the Institute. I would like to record our grateful appreciation to the State and Central Governments, Alumni and Recruiters for their unstinted support.

K.S.Dasgupta
Director
THE INSTITUTE

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar was founded in 2001 by the renowned visionary Industrialist, Shri Dhirubhai Hirachand Ambani, with a vision ‘to help build a knowledge-led society founded on intellectual competitiveness for global leadership.’ DA-IICT is managed by a Board of Governors chaired by Shri Anil Ambani, Chairman, Reliance ADA Group with visionaries and leaders from academia, government and industry.

DA-IICT is established as a Society under the Societies Registration Act, 1860 and Bombay Public Trust Act, 1950. An Act of the Gujarat State Legislature in 2003 conferred upon DA-IICT the status of a University. The University Grants Commission has included DA-IICT in the list of Universities maintained under Section 2(f) of the UGC Act, 1956. In 2009, DA-IICT is a member of the Association of Indian Universities (AIU).

DA-IICT is envisioned to be a leader in higher learning and research in Information and Communication Technology and allied domains. To support this, right from the beginning, the Institute has attracted the best faculty with Doctorate from prominent institutions across the world having exceptional research credentials.

DA-IICT offers two undergraduate and six post graduate programs including a doctoral program. The undergraduate programs are B.Tech in Information and Communication Technology (ICT) and B.Tech (Hons.) in ICT with Computational Science as minor. The postgraduate programs are M.Tech (Information and Communication Technology), M.Tech (Computer Science) with specializations in Information Security and Data Sciences, M.Tech (Electronics and Communication Engineering) with specialization in Wireless Communication and Embedded Systems, M.Sc (Information Technology), M.Des (Communication Design) and Doctoral Program in Technology and Humanities. Launched from the academic year 2019-20, M.Tech (Computer Science) and M.Tech (Electronics and Communication Engineering) are jointly conducted with the Indian Institute of Technology, Jammu and C.R. Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad respectively.
It has been planned to design and launch an M.Sc Program in Data Science and a B.Tech Program in Mathematics and Computing from the Academic Year 2020-21.

The Alumni of the Institute consist of over 5500 ICT engineers, design professionals, agriculture and rural development professionals and doctoral scholars. They have carved a name for themselves in technical, managerial and research domains in major Indian and International technology corporations and institutions. They are spread across the world and have achieved numerous feats as technologists, managers, researchers and entrepreneurs.

DA-IICT designs and offer continuing education programs to upgrade the skills of researchers, academicians and professionals in industries, public and government organizations. These programs are knowledge sharing and they are in the forms of hands on training.

The Institute houses a Government of India funded Incubation Center to promote innovation and entrepreneurship culture among the DA-IICT Community. The Government of Gujarat has been supporting and funding start-ups under the Incubation Center.

DA-IICT has collaborations with industry, teaching and research institutions in India and abroad for faculty exchange, joint research, and guidance of masters, doctoral and post-doctoral scholars.

DA-IICT is spread over 50 acres of land in Gandhinagar, Capital City of Gujarat. The campus is caringly planned and designed. The full green coverage on the campus with trees, lawns and bushes bearing exotic flowers surrounding the buildings and pathways instills environment awareness among students and enrich their learning. The landscape was planned and developed in a manner that the rainwater seeps into and recharges the campus wells. The recycled water is used to irrigate campus garden and lawns. The campus is also abode for various species of birds and many rare birds are spotted on the campus.
The Institute offers eight teaching programs -- two undergraduate and six post graduate programs including a doctoral program. The feature of the academic programs are that they are interdisciplinary, have an effective combination of core and elective courses in ICT, basic sciences, humanities, arts, design, social sciences, management and project-based flexible learning and internships in rural, industrial and research environments. In the case of M.Tech Programs, there are specializations and dissertation modules. The curricula of the programs are periodically reviewed by the chosen Committees with external experts from academia and industry and vetted by the Board of Studies and finally approved by the Academic Council. The Review Committees take feedback from experts from academia, industry, alumni and employers on curriculum revision or induction to ensure that the curriculum is update and will effectively prepare the students to abreast with the latest technological and research skills required by their employers. The details on the academic programs offered are given in Table 1.

### Table 1: Academic Programs

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Programs</th>
<th>Commencement</th>
<th>Duration (Years)</th>
<th>Annual Intake*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B.Tech (ICT)</td>
<td>2001</td>
<td>4</td>
<td>288</td>
</tr>
<tr>
<td>2</td>
<td>B.Tech (Honours) in ICT with minor in Computational Science</td>
<td>2013</td>
<td>4</td>
<td>72</td>
</tr>
<tr>
<td>3</td>
<td>M.Tech (ICT)</td>
<td>2002</td>
<td>2</td>
<td>64</td>
</tr>
<tr>
<td>4</td>
<td>M.Tech (CSE) with specialization in Information Security and M.Tech (CSE) with specialization in Data Science</td>
<td>2019</td>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>5</td>
<td>M.Tech (E&amp;CE) with specialization in Wireless Communication and Embedded Systems</td>
<td>2019</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>6</td>
<td>M.Sc (Information Technology)</td>
<td>2002</td>
<td>2</td>
<td>120</td>
</tr>
<tr>
<td>7</td>
<td>M.Des (Communication Design)</td>
<td>2004</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>8</td>
<td>PhD</td>
<td>2002</td>
<td>3-5</td>
<td>10-20</td>
</tr>
</tbody>
</table>

*Inclusive of NRI/Foreign Students. Exclusive of supernumerary seats filled in by the Admission Committee for Professional Courses, Government of Gujarat.

### ADMISSIONS FOR 2019-20 BATCHES

The preparations for 2019-20 admissions began in March 2019 with the release of advertisements in regional/national dailies covering the entire country. The admissions were also announced at the web site of the Institute and by means of posters, brochures and social networks. The process of online filling in applications was open from 12th April 2019. The admissions and counseling were carried out by using an online system.

The admissions to 50% seats of the B.Tech Programs were carried out by the Admission Committee for Professional Courses (ACPC), Government of Gujarat and the other 50% were managed by the Institute. The Indian Institute of Technology, Jammu, carried...
out the admissions to the M.Tech (CS) Program with specializations in Information Security and Data Sciences. The Institute handled the admissions to all other postgraduate programs.

**Undergraduate Programs**

**B.Tech (ICT) and B.Tech (ICT) Honours with Computational Science as Minor**

The B.Tech programs have 360 seats, including 54 seats for Non-Resident Indians, Foreign Nationals and Persons of Indian Origin. Out of them, 180 seats were filled in by ACPC following their eligibility criteria, procedures and rules on admissions. The admissions to the other 126 seats were filled in by the Institute based on the All India Rank of Joint Entrance Examination Main 2019 (JEE Main 2019). The admissions to the 54 seats offered to Non-Resident Indians, Foreign Nationals and Persons of Indian Origin were carried out on the basis of the Scholastic Aptitude Test (SAT) or JEE Main 2019 score. The Institute follows the guidelines for admission of reserved category students. The starting and closing JEE merit ranks of the students admitted are given in Table 2.

**PG Admissions**

**M.Tech (ICT):** For 2019-20 batch admission, the Institute reintroduced four specializations, namely, Communication and Signal Processing, Machine Learning, Software Systems and VLSI and Embedded Systems. The admissions to the program were based on valid Graduate Aptitude Test in Engineering (GATE) score and in selected cases by an additional test and interview conducted by the Institute. Sixty four students were admitted to the program.

**M. Tech (EC):** CR Rao Advanced Institute of Mathematics, Statistics and Computer Science (CR Rao AIMSCS), Hyderabad and DA-IICT have jointly designed the M. Tech (EC) program with specialization in Wireless Communication and Embedded Systems. The students were admitted based on the GATE score and in some cases, by an additional test and interview conducted by DA-IICT. The students study their first semester at IIT Jammu and the second semester at DA-IICT. They can choose their third and fourth semester studies at any of the three Institutes depending on the nature and need of their dissertation or project. In the academic year

<table>
<thead>
<tr>
<th>Rank Category</th>
<th>B.Tech (ICT)</th>
<th>B.Tech (Honours) (CS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best JEE Main Rank</td>
<td>All India (Gen)</td>
<td>2416</td>
</tr>
<tr>
<td>Lowest JEE Main Rank</td>
<td>All India (Gen)</td>
<td>12372</td>
</tr>
</tbody>
</table>
2019-20, twenty six students were admitted to the program -- 16 for specialization in Data Sciences and 10 for Information Security. IIT Jammu confers the Degree to the successful students.

**M.Sc (IT):** The students were selected through an entrance test conducted by the Institute at selected centers in the country. The final merit list was prepared on the basis of the aggregate score in the test. One hundred and twenty students were admitted.

**M.Des (Communication):** The students admitted to the program were shortlisted through a Design Aptitude Test (DAT) conducted by the Institute. The final selection was based on the combined scores attained in DAT, interview and the Statement of Purpose (SOP) submitted online along with the admission application. The candidates with a valid CEED score were directly called for the interview. Twenty five applicants were called for entrance test/interview, 22 were offered admission and 13 have joined the program.

**PhD:** The admission to the program was through DA-IICT entrance test/CPI obtained in M.Tech Degree awarded by DA-IICT, CSIR/UGC-NET qualification, or GATE score. Out of 68 applicants, 36 candidates were called for interview on clearing the admission test. Twelve candidates were offered admission and 7 have joined the program.

**Table 3:** Students Admitted to PG Programs

<table>
<thead>
<tr>
<th>Programs</th>
<th>Application Received</th>
<th>Admission Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Tech (ICT)</td>
<td>422</td>
<td>70</td>
</tr>
<tr>
<td>M.Tech (EC)</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>M.Tech (CSE)*</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>M.Sc (IT)</td>
<td>624</td>
<td>120</td>
</tr>
<tr>
<td>M.Des (CD)</td>
<td>34</td>
<td>22</td>
</tr>
<tr>
<td>PhD</td>
<td>103</td>
<td>12</td>
</tr>
</tbody>
</table>

* Admission by IIT Jammu

**Table 3** shows the number of students admitted at the end of the admission process.

**ORIENTATION**

The orientation for the undergraduate students was held from 31st July 2019 to 3rd August 2019 and for post graduate students from 24th to 27th July 2019. The program is designed to provide an overview of the whole realm of Institute life, from academics to extra-curricular and social activities to the newly admitted students and integrate them into the Institute community. The sessions conducted covered genesis and mission of the Institute, academic policies and procedures, student activities, and other aspects of campus life. The senior student volunteers conducted special sessions on campus and hostel life. One of the sessions during the orientation was held for parents, and the parents met faculty, staff and senior students. The orientation acquainted the students and parents the course structure, evaluation system, grading, academic regulations, campus and infrastructure facilities.
The uniqueness of the undergraduate orientation program was that a boot camp was organized with a variety of activities to prepare the students for the transition to academic life at the Institute.

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 ADA Group, as part of their Corporate Social Responsibility, has instituted ten merit scholarships in an academic year for students of B.Tech (ICT) program. The scholarship is equal to the full tuition fee for the duration in which the scholarship is awarded. During the academic year 2018-19, 18 B.Tech students of all batches together have received the Scholarship.

DA-IICT Merit Scholarships
The Merit Scholarships are awarded to the top five students admitted to the B.Tech program having an All India Rank not exceeding 5000 in the JEE Main Examination. During the academic year 2018-19, in autumn semester 14 and in winter semester 15 students were awarded the Merit Scholarships.

DA-IICT Merit-cum-Means Scholarship
The Merit-Cum-Means Scholarships are awarded to five students in each semester based on their academic performance and whose parent(s)/guardian (s) annual income is up to Rs. 3.00 lakh. Twenty students have received the scholarship during the academic year 2018-19.

Assistantships
The Institute offers full-time teaching assistantships with monthly fellowship/scholarship to PhD Scholars and M.Tech (ICT) students. The eligible B.Tech (ICT) students are also offered half-time teaching assistantships in their final year studies. During the reporting year, 15 PhD Scholars, 60 M.Tech and 22 B.Tech students received assistantships.

TCS Research Fellowship
The TCS Foundation engaged in promoting and funding projects and/or programs, relating to Corporate Social Responsibility (CSR), has instituted Research Scholar Program at the Institute to promote scientific research in the area of technology. This prestigious program provides attractive doctoral fellowships and contingency grants to full-time students pursuing PhD programs in areas of Computer Engineering, Computer Science, Information Systems, Information Technology and Software Engineering. Over and above fellowship, the Scholars are eligible to receive 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.

Ms. Jainisha Sankhavara and Mr. Prashant Mansukhbhai Domadiya, 2015-16 batch PhD Scholars, continued to be the recipients of the Fellowship in the academic year 2018-19.

TCS Student 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.

Chief Minister Scholarship Scheme and Mukhyamantri Yuva Swavlamban Yojana (MYSY), Government of Gujarat
The Government of Gujarat has designated DA-IICT as one of the Institutions to guide the undergraduate students in preparation and submission of applications for the Chief Minister Scholarship and MYSY. The Registrar’s Office guides and assist students from DA-IICT as well as students from other Institutions to apply for the ‘Mukhyamantri Yuva
Swavlamban Yojana (MYSY): The Scheme provides financial help to bright and needy undergraduate students whose parents’ annual income is up to Rs.6.00 lakh. Three hundred twenty six B.Tech students have received the scholarship during the reporting year.

THESES
Master’s Theses
The M.Tech (ICT) curriculum includes Software Systems, Machine Learning, VLSI and Embedded Systems and Communication and Signal Processing specialization tracks. After their second semester studies, the students pursue two semesters of research under the guidance of a faculty advisor and submit a master’s thesis in order to obtain the degree specializing in the respective track. The students of M.Sc (IT), M.Sc (ICT-ARD) and M.Des (CD) programs work full time on projects during their fourth semester at DA-IICT or at leading organizations. The list of theses and project reports completed 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 interaction as well as collaboration. The MoUs which were in force during the reporting period are as follows:

• **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.

• **Space Application Centre, Indian Space Research Organisation:** To carry out joint activities which will include research projects; doctoral studies of SAC officers at DA-IICT, the internship of PG students at SAC, training of SAC officials, visit of faculty to SAC and SAC scientists to DA-IICT for research and academic pursuits, joint workshops and conferences.

• **Reliance Communications Limited:** To institute the Research Chair to lead research and education in Computational Science and setting up of a Computational Science Laboratory at DA-IICT.

• **Tata Consultancy Services:** To nominate suitable full-time PhD candidates of DA-IICT for the TCS Research Scholar Program.

• **eiTRA-elnfochips 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-elnfochips and jointly offer continuing education programs.

• **Ericsson India Private Limited:** To impart training to the B.Tech students who have completed their sixth semester of studies at DA-IICT and consider employment of the certified students with Ericsson India.

• **Ramakrishna Sarada Sevashram, Bastar:** To sponsor eligible candidates for PhD studies at DA-IICT, develop and support joint research programs and conduct specialized courses.

• **University of Antwerp, Belgium:** To exchange faculty and students and for scientific cooperation.

• **Indian Institute of Technology, Gandhinagar:** To collaborate on teaching and research and exchange of scientific and academic personnel.

• **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 programmes by each other and exchange scientific materials and publications.

• **Institut Superieur D’Electronique De Paris, France:** For exchange of faculty, students and joint research.
• University of Dayton, USA: To develop academic exchange and co-operation in teaching and research for the advancement and dissemination of learning.

• University of Evora (Universidade de Evora), Portugal: For academic exchange, collaboration in teaching, research and exchange of scientific materials and publications, for advancement and dissemination of learning. Under the provisions of the MoU, DA-IICT is one of the Asian University Partners with the University of Evora in the Erasmus Mundus Fellowship Program of the European Commission.

• University of Hildesheim (Stiftung Universitat Hildesheim), Hildesheim, Germany: For academic and research collaboration, exchange of faculty, staff and students and exchange of academic information, scholarly information, materials and publications.

• University of Swaziland (UoS), Swaziland: For academic exchange, research and faculty development of UoS for the advancement and dissemination of learning.

• Indian Statistical Institute: For the visit of faculty to participate in joint teaching, research, and conferences; visit of students to each other Institutes for short term courses, internships or mini projects; prepare, as necessary, additional working programs detailing specific norms and contents of co-operation and to exchange scientific materials and publications.

• INFLIBNET Centre, Inter-University Centre of the University Grants Commission: To participate in the digitization of theses and dissertations and building-up of a digital repository and to promote, share and host DA-IICT’s electronic theses and dissertations in ‘Shodhganga.’

• Entrepreneurial Development Institute of India: To collaborate in mutually selected projects with a view to share expertise for tackling problems relating to ICT, entrepreneurship, socio-economic development etc., involving the exchange of personnel, organization of joint conferences, teaching and training programs.

• Springer Science+Business Media Singapore Pte Ltd: To publish jointly books and individual titles authored by faculty, researchers and doctoral scholars of DA-IICT following the Springer’s norms of copyrights and editing and market them worldwide through Springer’s network.

• ICICI Bank: To participate at the ICICI Trinity Program. The Program encourages and promotes students’ talent to bring forth new ideas and innovations which can be applied in the banking/finance industry and help in their commercialization. The Program supports final year UG/PG students of five students team. In the case of PhD Scholars, single Scholar can seek support.

• Bennett University, Noida: To collaborate with Leadingindia.ai, one of the largest nationwide initiatives on skilling and research in Deep Learning and Artificial Intelligence Technologies. This project has the potential to change the landscape of Artificial Intelligence research in India.

• Indian Institute of Technology Jammu, Jammu: For academic and research collaboration, particularly, to design and offer teaching programs leading to Degrees, guide students on internships, thesis and jointly engage in research, organize conferences, workshops, seminars and other dissemination activities and exchange of faculty, staff and students.

• Universiti Teknologi Mara, Malaysia: To jointly engage in research, exchange of students for periods of study and/or research, joint guidance of students on projects and theses, exchange of faculty and staff and organize joint seminars, conferences and meetings on research issues.
DA-IICT designs and offers continuing education programs (CEP) focussing in the areas of Information and Communication Technology to professionals, faculty and researchers in Colleges and Universities. Over the past years, several programs have been designed and conducted for IT Companies, Indian Air Force, Indian Navy, INS Valsura, Space Application Centre and Food & Agriculture Organization of the United Nations.

In June 2018, the Center for Entrepreneurship Development, Department of Industries and Mines, Government of Gujarat selected DA-IICT as an ‘Anchor Institute’ in the specialization area of Information and Communication Technology. The objective of the Anchor Institute Program (AIP) is to achieve the ultimate goal of making students of Gujarat ‘industry ready’ through well-trained faculty members of Gujarat based Engineering Colleges. The program is of five year duration. The following Engineering Colleges and University have been selected as ‘Nodal Institutes’ to partner in the program:

1. Government Engineering College, Modasa
2. Government Engineering College, Bhavnagar
3. Chandubhai S. Patel Institute of Technology, Changa
4. Sarvajanik College of Engineering and Technology, Surat
5. Marwadi University, Rajkot

During the reporting year, the Institute has trained 138 faculty members of Engineering Colleges in Gujarat in industry relevant skills under the program.
The following training programs were conducted:

<table>
<thead>
<tr>
<th>Programme</th>
<th>Sponsor/Coordinator</th>
<th>Period</th>
<th>No. of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Oriented Architecture (SOA) with Cloud Technology</td>
<td>AIP</td>
<td>Nov 19 to 23, 2018</td>
<td>9</td>
</tr>
<tr>
<td>VLSI Front end Design Flow using Cadence Tools</td>
<td>AIP</td>
<td>Nov 19 to 23, 2018</td>
<td>16</td>
</tr>
<tr>
<td>Analysis and Design of Algorithm</td>
<td>AIP</td>
<td>Nov 26 to 30, 2018</td>
<td>12</td>
</tr>
<tr>
<td>Digital Signal Processing</td>
<td>AIP</td>
<td>Nov 26 to 30, 2018</td>
<td>7</td>
</tr>
<tr>
<td>A practical approach to learn Computer Networks</td>
<td>AIP</td>
<td>Dec 3 to 7, 2018</td>
<td>25</td>
</tr>
<tr>
<td>Selected Topics in Operating Systems</td>
<td>AIP</td>
<td>Dec 3 to 7, 2018</td>
<td>8</td>
</tr>
<tr>
<td>Device Modeling and Circuit Simulation for Integrated Circuit Designs</td>
<td>AIP</td>
<td>Dec 10 to 14, 2018</td>
<td>6</td>
</tr>
<tr>
<td>Selected Topics in Operating Systems</td>
<td>AIP</td>
<td>May 13 to 17, 2019</td>
<td>8</td>
</tr>
<tr>
<td>Digital and Analog Communication Systems</td>
<td>AIP</td>
<td>May 13 to 17, 2019</td>
<td>8</td>
</tr>
<tr>
<td>Image Processing using VLSI Architectures</td>
<td>AIP</td>
<td>May 20 to 24, 2019</td>
<td>5</td>
</tr>
<tr>
<td>Multicore Processor Architecture &amp; Parallel Programming</td>
<td>AIP</td>
<td>May 20 to 24, 2019</td>
<td>7</td>
</tr>
<tr>
<td>Data Structures</td>
<td>AIP</td>
<td>May 27 to 31, 2019</td>
<td>8</td>
</tr>
<tr>
<td>Innovations in teaching Software Engineering &amp; Programming Courses</td>
<td>AIP</td>
<td>June 3 to 7, 2019</td>
<td>6</td>
</tr>
<tr>
<td>Advanced .NET and C#</td>
<td>AIP</td>
<td>June 10 to 14, 2019</td>
<td>5</td>
</tr>
<tr>
<td>Real-time and Embedded Systems</td>
<td>AIP</td>
<td>June 10 to 14, 2019</td>
<td>8</td>
</tr>
<tr>
<td>Analytics in Agriculture</td>
<td>World Bank, ICAR</td>
<td>June 10, 2019 to July 19, 2019</td>
<td>35</td>
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</tbody>
</table>

**Analytics in Agriculture**

A six week certification course on Analytics in Agriculture was conducted in collaboration with Amnex Infotechnologies, Ahmedabad for UG students of Junagadh Agriculture University from June 10, 2019 to July 19, 2019. The course was supported under the National Agricultural Higher Education Project - Institutional Development Plan (IDP) for Junagadh Agriculture University (JAU) funded by World Bank through Indian Council of Agricultural Research.

A total of 35 students, 21 from the College of Agriculture and 14 from College of Agricultural Engineering & Technology participated in the course. The course content was divided into two modules – two weeks refresher module followed by four weeks domain module. In each module three topics were covered and they were Fundamentals of Analytics, Python Programing and Linear Algebra in the first module and Crop Inventory and Condition Assessment, Soil and Weather in the second module. In the last week, the participants were assigned a mini project on the topics of their interest.

At the end of the course, Amnex Infotechnologies made a placement drive for the participants. Subsequently, 5 students each were selected for placement and internship. Four of them have joined the Company in August 2019 and another four have joined for internship from January 2020.
PLACEMENTS
DA-IICT has been one of the most preferred Institutes by Companies looking to add bright young talent to their workforce. A good number of students have been recruited with attractive packages by leading Companies like Microsoft, Amazon, Zomato, Goldman Sachs, LinkedIn, Sprinklr, Flock, OYO and Phillips. The 2018-19 placement season saw recruiters from various domains of industries offering job profiles like Software Engineer, R&D Engineer, Business Technology Analyst, Data Scientist, Site Reliability Engineer, ASIC Design Engineer and Business Intelligence Consultants. More than 150 Companies participated in campus placement for the batch graduating in 2018-19. The Companies visited DA-IICT and offered summer internships to the pre-final year students through the campus placement process include Endurance International Group, Verse Innovation Private Limited (Dailyhunt), Media.net, Morgan Stanley, OpsHub Technologies Pvt. Ltd. and MAQ Software. Apart from the regular placement activities, the Placement Cell initiated the process of tying up a group of current students with Alumni of the Institute to mentor and prepare them for the campus placement process. The Placement Cell also started with assessments and interview preparation for pre-final year students to enable them to get internships and final job offers in the companies that participate in the campus placement.

<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Students opting for campus placement</td>
<td>197</td>
<td>54</td>
<td>90</td>
<td>03</td>
<td>02</td>
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<tr>
<td>Students opting out of campus placement</td>
<td>77</td>
<td>7</td>
<td>00</td>
<td>00</td>
<td>07</td>
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<tr>
<td>Total</td>
<td>274</td>
<td>61</td>
<td>90</td>
<td>03</td>
<td>09</td>
</tr>
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</table>

Table 5: Placement Status

The average annual salary package was Rs. 10.16 lakh. The highest salary package touched Rs. 39.30 lakh per annum.

RURAL INTERNSHIPS
The B.Tech 2017-18 Batch comprising 320 students were placed in 31 Non-Governmental Organizations located in 10 states for Rural Internship. The Internship period was from 01 to 28 December, 2018. They were involved in activities such as conducting camps on health awareness, education for the girl child, harmful effects of tobacco, surveys on women’s health, occupations, wages and incomes of villagers, their hardships, and so on. Some of the outcomes of these activities included possible technological solutions, namely conversion of paper-based records to digital using platforms such as MS Office Suite and creating mobile apps. The students made group-wise poster presentations that were evaluated.
<table>
<thead>
<tr>
<th></th>
<th>Non-Governmental Organisations hosted students for Rural Internship</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ajeet Rural Development Foundation</td>
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<tr>
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<td>Akshaya Patra</td>
</tr>
<tr>
<td>3</td>
<td>Apna Ghar Ashram</td>
</tr>
<tr>
<td>4</td>
<td>Aryasamaj, Visavadar</td>
</tr>
<tr>
<td>5</td>
<td>Blind People's Association</td>
</tr>
<tr>
<td>6</td>
<td>Bolbala Charitable trust</td>
</tr>
<tr>
<td>7</td>
<td>Educare India</td>
</tr>
<tr>
<td>8</td>
<td>ESI Sughad</td>
</tr>
<tr>
<td>9</td>
<td>GKSM Trust, Kamrej</td>
</tr>
<tr>
<td>10</td>
<td>GKSM Trust, Vyara</td>
</tr>
<tr>
<td>11</td>
<td>Gramin Sewa Ashram, Himachal Pradesh</td>
</tr>
<tr>
<td>12</td>
<td>HIFEED, Dehradun</td>
</tr>
<tr>
<td>13</td>
<td>Incredible Himachal Pradesh</td>
</tr>
<tr>
<td>14</td>
<td>Ishwar Gram Vikas Trust, Patan</td>
</tr>
<tr>
<td>15</td>
<td>J.V Naria, Jamnagar</td>
</tr>
<tr>
<td>16</td>
<td>Kasturba Sevashram</td>
</tr>
<tr>
<td>17</td>
<td>Parvatiya Jan Kalyan Sansthan</td>
</tr>
<tr>
<td>18</td>
<td>People's Welfare Society, Junagadh</td>
</tr>
<tr>
<td>19</td>
<td>PNR Society</td>
</tr>
<tr>
<td>20</td>
<td>Pratibha Foundation</td>
</tr>
<tr>
<td>21</td>
<td>Rajasthan Mahila Kalyan Mandal Sansthा, Ajmer</td>
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<tr>
<td>22</td>
<td>Seven Sisters Development Assistance (SeSTA)</td>
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<tr>
<td>23</td>
<td>Shiv Shiksha Samita Ranoli</td>
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<tr>
<td>24</td>
<td>Shree Mateshwari Vikas Seva Samiti</td>
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<tr>
<td>25</td>
<td>SUTRA</td>
</tr>
<tr>
<td>26</td>
<td>Tagore Society for Rural Development, West Bengal</td>
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<td>27</td>
<td>Tara Sansthan, Udaipur</td>
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<td>28</td>
<td>UETS, AP</td>
</tr>
<tr>
<td>29</td>
<td>Vanvasi Kalyan Ashram, Ahmedabad</td>
</tr>
<tr>
<td>30</td>
<td>VRTI, Bhavnagar</td>
</tr>
<tr>
<td>31</td>
<td>Yuva Unstoppable</td>
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</table>
RESEARCH/ INDUSTRIAL INTERNSHIPS

After the completion of foundation courses, the B.Tech students go through a 6-8 weeks Industrial or Research Internship. They have a choice of taking an industrial internship or a research internship depending on their career goals. This internship is scheduled in the summer vacation falling after the sixth semester. In the final semester, the students take up a Project titled as B.Tech Project (BTP) in which they demonstrate their ability to utilize the concepts and skills they have learnt during their studies at the Institute and their creative and design abilities. The students may take a split BTP starting in seventh semester and concluding in the eighth semester.

The students took internships across Industry, Research and Development Laboratories and Institutions including DA-IICT.

On completion of internships, the students made their presentations and it was observed that through research and industrial internships, they could get excellent exposure to research and development and/or industrial applications of broad areas of ICT.

Organisations hosted students for Summer Internships - (off-campus through Placement Section)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of the organizations/Institution</th>
<th>No. of students</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Amazon Development Center India Pvt. Ltd</td>
<td>12</td>
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<tr>
<td>2</td>
<td>Dailyhunt (Verse Innovation Pvt. Ltd)</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Deutsche Bank</td>
<td>11</td>
</tr>
<tr>
<td>4</td>
<td>Endurance International Group</td>
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<tr>
<td>5</td>
<td>Fintech Global Pvt. Ltd</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>Goldman Sachs</td>
<td>2</td>
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<tr>
<td>7</td>
<td>Kristal.ai</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>MAQ Software Pvt. Ltd</td>
<td>9</td>
</tr>
<tr>
<td>9</td>
<td>Microsoft India Pvt. Ltd</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>Morgan Stanley Advantage Service Pvt. Ltd</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>Multi Commodity of India Limited</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>OpsHub Technologies Pvt. Ltd</td>
<td>6</td>
</tr>
<tr>
<td>13</td>
<td>Pivoting Softwares Pvt. Ltd (Griddle)</td>
<td>3</td>
</tr>
<tr>
<td>14</td>
<td>Sprinklr India Pvt. Ltd</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>Syntax Studio</td>
<td>3</td>
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<tr>
<td>16</td>
<td>VISA</td>
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<td>Sr. No.</td>
<td>Name of the Organization</td>
<td>No. of Students</td>
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<td>5</td>
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<td>Clarisights</td>
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<td>COVIAM Technology &amp; Services Pvt Ltd</td>
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<td>Zapr Media Labs</td>
<td>4</td>
</tr>
<tr>
<td>81</td>
<td>Zeus Systems Pvt. Ltd</td>
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</table>
The fifteenth annual convocation of the Institute was held on 12th January, 2019. The Degrees were awarded to the students of fourteenth batch of B.Tech (ICT), second batch of B.Tech (Honours) in ICT with minor in Computational Science, fifteenth batch of M.Tech (ICT) and M.Sc (IT), fourteenth batch of M.Sc (ICT-ARD), eleventh batch of M.Des (CD) and 11 PhD Scholars numbering 465 students. The following students were awarded President’s Gold Medal for scholastic performance:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name</th>
<th>Program</th>
</tr>
</thead>
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<td>1</td>
<td>Akshat Dua</td>
<td>B.Tech (ICT)</td>
</tr>
<tr>
<td>2</td>
<td>Damle Omkar Vishwesh</td>
<td>B.Tech (Honours) ICT with Minor CS</td>
</tr>
<tr>
<td>3</td>
<td>Lokesh Kumar</td>
<td>M.Tech (ICT)</td>
</tr>
<tr>
<td>4</td>
<td>Tappir Prasad Anil</td>
<td>M.Sc (IT)</td>
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<td>Ashwani Tanwar</td>
<td>M.Sc (ICT-ARD)</td>
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<td>6</td>
<td>Shah Shailaja Shalinbhai</td>
<td>M.Des (CD)</td>
</tr>
</tbody>
</table>

Shri Kiran Karnik, former President of the National Association of Software and Service Companies (NASSCOM) and an independent Policy and Strategy Analyst was the Chief Guest for the Convocation. He began his address by congratulating the graduating students on their achievements and advised them to be indebted to their parents and guardians who have nurtured and supported them throughout their studies. He reminded the audience that the world is rapidly changing, driven by technology -- new technologies inciting fast economic and social change. He cited the example of mobile phone that has become inseparable part of people’s lives with its numerous applications. Another example is the rapidly growing digitization of organizations and processes that have made things simpler and quicker and brought in a new level of transparency in citizen-government interactions. Also the near instantaneous information access through online has become routine, simpler and transparent. He highlighted that the confluence of electronics, computer software and artificial intelligence has led
to multidimensional technological developments. One of them, Robots is now carrying out many functions in factories and the list of what they can do – often quicker, better and cheaper than humans is growing by the day. He cited that equally rapid developments are taking place in biology, genetics and healthcare. The developments in gene editing, splicing and modifying hold promise for preventing genetic disorders. Like genetics, neuro-technology is another domain that is resulting in a number of devices based on brain-computer interface and implants that augment human capabilities. He forewarned that far stretched research in these areas could result in manipulating them and therefore, in all these innovations ethical questions should assume greater importance. He advised the graduating class to continue learning, innovate, become a problem solver rather than a wielder of technological tools, attain soft skills, do what they are passionate about, be compassionate to disadvantaged and uphold professional ethics, integrity and values.
DA-IICT has been a research-led University since its inception in 2001. Ever since it was founded, the Institute has had a vibrant research environment. This has brought dynamism to all academic activities. It stands for a confluence of several interrelated disciplines, from technology and basic sciences to humanities and social sciences catering to both academia and industry. The Institute aims to encourage basic, applied and developing research conducted both by students and members of faculty alike. The Institute’s encouragement clearly reflects in the policies the Institute has formulated for research activities and professional development. Although the needs of faculty are as diverse as the disciplines they represent, they, however, share the common goal of building their capacities to generate new ideas and ways of understanding the society.

DA-IICT’s infrastructure, ranging from various well-equipped laboratories, specialized equipment, campus-wide networking, high-speed internet access and subscription to hundreds of print and online journals matches the general expectations of inter-disciplinary research. The faculty are encouraged to seek out the latest opportunities for research collaboration and funding. Partnerships with industry are a priority. Besides, all efforts to participate in bilateral, international and multi-institutional research aimed at solving critical problems are duly supported. In this challenging fiscal climate, when the traditional individual research grant has become increasingly competitive, multi-institutional grants can be an important source of funding for research.

The faculty, students, and research staff are active in research in several academic disciplines, including but not limited to computer science, electronics and communication, mathematics, physics, agriculture and rural development, humanities, and social sciences. They have been regularly publishing their research work in leading refereed journals and conferences. Over the last decade, a large number of sponsored projects have been initiated by faculty, including international projects.

**SPONSORED PROJECTS**

In the year 2018-19, the Institute received grants for 5 new sponsored projects. Sixteen projects were in different stages of progress and 3 projects were completed.

<table>
<thead>
<tr>
<th>Title of the Sponsored Project</th>
<th>Sponsoring Agency</th>
<th>Investigators</th>
</tr>
</thead>
</table>
| Using Mobile Sensing Mechanism to Access Smart Phone Addiction and Its Negative Impact on Students | ICSSR | Prof. Alka Parikh  
  Prof. P.S. Kalyan Sasidhar |
| Development of Graph Algorithms for Control of Complex Networks with Applications in Computational Biology | DST-SERB | Prof. V. Sunitha |
| Design and Simulation of Beamforming Algorithms and Baseband Technologies for SATCOM | ISRO/DoS | Prof. Yash Vasavada  
  Prof. Rajib Lochan Das |
| Multiscale and Simulation of Complex Plasma Dynamics during High Power Millimeter Wave Breakdown | DST-SERB | Prof. Bhaskar Chaudhary |
| Design and Field Training Testing of an Energy Autonomous Internet of Things Enabled Cattle Estrus Detection Device Targetted for Resource Constrained Regions | DST-SERB | Prof. Biswajit Mishra  
  Prof. P.S. Kalyan Sasidhar |
### Table 7: On-going Projects

<table>
<thead>
<tr>
<th>Title of the Sponsored Project</th>
<th>Sponsoring Agency</th>
<th>Investigators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of Microwave Absorbers (Carbonyl Iron filled Silicon Rubber Sheets) in 1 to 8 GHz range</td>
<td>ISRO/DoS</td>
<td>Prof. Deepak Ghodgaonkar&lt;br&gt;Prof. Sanjeev Gupta</td>
</tr>
<tr>
<td>Desertification and Land Degradation: Monitoring, Vulnerability Assessment and Combating Plans</td>
<td>ISRO/DoS</td>
<td>Prof. Ranendra Ghosh&lt;br&gt;Prof. Suman K. Mitra</td>
</tr>
<tr>
<td>Imprint - A platform for Crosslingual and Multilingual Event Monitoring in Indian Languages</td>
<td>MHRD</td>
<td>Prof. Prasenjit Majumder&lt;br&gt;Prof. Suman K. Mitra</td>
</tr>
<tr>
<td>UCMA: A Toolset to Automatically Analyse Functional Requirements Specified in the Use Cases</td>
<td>SERB/DST</td>
<td>Prof. Saurabh Tiwari</td>
</tr>
<tr>
<td>Detection of Heavy Metal Pollution in Vegetation and Characterization of Soil Clay Minerals using AVIRIS-NG Data</td>
<td>ISRO/DoS</td>
<td>Prof. Ranendra Ghosh&lt;br&gt;Prof. P.S. Kalyan Sasidhar</td>
</tr>
<tr>
<td>Kinetic Modelling of Large size Negative Ion Sources for Fusion Application using Emerging Parallel Processing Computer Architectures</td>
<td>BRNS</td>
<td>Prof. Bhaskar Chaudhury&lt;br&gt;Prof. Mukesh Tiwari</td>
</tr>
<tr>
<td>Study of Privacy, Accountability and Ownership in IoT</td>
<td>IFCPAR</td>
<td>Prof. Manik Lal Das&lt;br&gt;Prof. Anish Mathuria</td>
</tr>
<tr>
<td>Techno Feasibility Study on Automation of Hydroponics and Green House Cultivation</td>
<td>GHM</td>
<td>Prof. Ranendra Ghosh&lt;br&gt;Prof. Rahul Dubey</td>
</tr>
<tr>
<td>Processor RTL Customization and Development of Low Power Design Flow Methodology</td>
<td>GUJCOST</td>
<td>Prof. Amit Bhatt&lt;br&gt;Prof. Mazad Zaveri</td>
</tr>
<tr>
<td>Enabling Technologies for Remote Health Monitoring</td>
<td>GUJCOST</td>
<td>Prof. Biswajit Mishra&lt;br&gt;Prof. Manik Lal Das</td>
</tr>
<tr>
<td>Speech based Access of Agriculture Commodity Prices and Weather Information in 12 Indian Languages/ Dialects (ASR), Consortium-Phase-II</td>
<td>DeiTY</td>
<td>Prof. Hemant A Patil&lt;br&gt;Prof. M.V. Joshi</td>
</tr>
<tr>
<td>Center Early Adopter - NSF/ TCPP CDER</td>
<td>NSF (USA)</td>
<td>Prof. Bhaskar Chaudhury&lt;br&gt;Prof. Mukesh Tiwari</td>
</tr>
<tr>
<td>Expansion of Technology Incubation and Development of Entrepreneurs (TIDE) in the areas of Electronics and ICT</td>
<td>DIT</td>
<td>Prof. Sanjeev Gupta</td>
</tr>
<tr>
<td>Nodal Institute for Start-ups</td>
<td>Industries Commissionerate&lt;br&gt;Govt. of Gujarat</td>
<td>Prof. Sanjeev Gupta</td>
</tr>
<tr>
<td>Student Start-up and Innovation</td>
<td>Govt. of Gujarat</td>
<td>Prof. Sanjeev Gupta</td>
</tr>
<tr>
<td>Anchor Institute Program</td>
<td>CED (Govt of Gujarat)</td>
<td>Prof. Amit Bhatt</td>
</tr>
</tbody>
</table>

### Table 8: Completed Projects

<table>
<thead>
<tr>
<th>Title of the Sponsored Project</th>
<th>Sponsoring Agency</th>
<th>Investigators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Wide Band Dielectric Resonator Antenna</td>
<td>ISRO/DoS</td>
<td>Prof. Deepak Ghodgaonkar&lt;br&gt;Prof. Sanjeev Gupta</td>
</tr>
<tr>
<td>Development of Cross Lingual Information (CLIA) System (Phase-II)</td>
<td>DeiTY</td>
<td>Prof. P. Majumder&lt;br&gt;Prof. Suman K. Mitra</td>
</tr>
<tr>
<td>Development of Ultra Low Power and Low Voltage Time to Digital Converter(TDC) for Space Applications</td>
<td>ISRO/DoS</td>
<td>Prof. Biswajit Mishra</td>
</tr>
</tbody>
</table>
Table 9: Consultancy Project

<table>
<thead>
<tr>
<th>Consulting Area</th>
<th>Organization</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of OCR Algorithms to Enhance the Accuracy of Numerical Data Recognition by the Machine</td>
<td>Factset Systems India Pvt. Ltd., Hyderabad</td>
<td>Prof. M V Joshi</td>
</tr>
</tbody>
</table>

**DA-IICT Centre for Entrepreneurship and Incubation (DCEI)**

DA-IICT Centre for Entrepreneurship and Incubation was established in 2011 to promote innovation and entrepreneurship culture among the community. DCEI is supported by the Ministry of Electronics and Information Technology, Government of India to nurture and develop business ideas based on the latest and emerging technology. The DCEI has also been recognized by the Government of Gujarat as a Nodal Institution to promote and nurture entrepreneurship among young technologists in the state. DCEI has incubated the following start-ups since its inception:

1. AlmaConnect Solutions Private Limited - creates a network for educational institutions and tracks its alumni members.
2. Playpower Labs Private Limited - develops game curriculum for school students and data analytics for companies involved in the field of education.
3. Appbin Labs Private Limited - successfully developed a product ‘Developer Hub’ which provides complete database services for rapid application development.
4. Kamkaaj Solutions Private Limited - engaged in developing a job aggregator that aggregates jobs that are posted on different job boards/portals and empowers job-seekers with the features of searching and analyzing jobs.
5. Corygbee Private Limited – a faculty-led startup, is an online research collaboration platform for researchers, students, and research funding agencies.
6. Innoruptiontech Solution Private Limited – a hyper local job market place for blue collar and entry level segment.
7. Yoctosehns Technologies Private Limited - a through monitoring of cattle at a low cost. It helps in estrus detection with a simple user interface.

Following are the proposals accepted and supported under Student Start-up and Innovation Policy (SSIP) in 2018-19:

2. Smart Travel Bag.
3. Energy Harvesting Using IOT.

DCEI undertook the following main activities under SSIP:

1. HackInfinity (Hackathon).
2. 10X Challenge.
3. Entrepreneurship talk by Mr. Aslam Charania, Mastermind Training and Consultancy Services Pvt. Ltd.
The Institute regularly organizes conferences, seminars and workshops for promoting interactions with wider academic and research communities.

The conferences and workshops organised during 2018-19 are listed in Table 10:

### Table 10: Conferences, Seminars, and Workshops Organised

<table>
<thead>
<tr>
<th>Title</th>
<th>Dates</th>
<th>Sponsoring Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer School on Speech Production (S4P-2018)</td>
<td>9-11 September 2018</td>
<td>DA-IICT, APSIPA</td>
</tr>
<tr>
<td>Tenth Forum for Information Retrieval Evaluation (FIRE)</td>
<td>6-9 December 2018</td>
<td>DA-IICT, ACM-SIGIR, Google, Microsoft, Rygbee Inc., USA</td>
</tr>
<tr>
<td>Winter School on 5G Communications</td>
<td>7-8 December 2018</td>
<td>DA-IICT, SAC ISRO, and IEEE ComSoc and Signal Processing Chapters of Gujarat Section</td>
</tr>
<tr>
<td>Indradhanush Workshop in Entrepreneurship</td>
<td>9-10 February 2019</td>
<td>DA-IICT, DCEI</td>
</tr>
<tr>
<td>Research Connect Workshop</td>
<td>27-29 March 2019</td>
<td>DA-IICT, British Council</td>
</tr>
<tr>
<td>Workshop on Deep Learning</td>
<td>29-31 March 2019</td>
<td>DA-IICT, Bennett University</td>
</tr>
<tr>
<td>Summer School on Speaker Recognition and Diarization</td>
<td>6-10 July 2019</td>
<td>DA-IICT, ISCA, DE Gruyter, Reliance Communications, APSIPA</td>
</tr>
</tbody>
</table>
VISITORS AND SPECIAL LECTURES

The Institute welcomes visitors from various organizations. Their visits help the faculty and students to explore collaboration, funding and professional development opportunities. It regularly invites speakers from academic institutions and industry experts to deliver special lectures. Below is a list of visitors during 2018-19:

<table>
<thead>
<tr>
<th>Visitor and Affiliation</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Virendra Singh, IIT Bombay</td>
<td>27 August, 2018</td>
</tr>
<tr>
<td>Prof. Jayanta Mukherjee, IIT Bombay</td>
<td>27 August, 2018</td>
</tr>
<tr>
<td>Prof. Vijaykumar Chakka, Shiv Nadar University, NOIDA</td>
<td>27 August, 2018</td>
</tr>
<tr>
<td>Prof. Usha Mehta, Nirma University, Ahmedabad</td>
<td>27 August, 2018</td>
</tr>
<tr>
<td>Prof. Vivek Kanhangad, IIT Indore</td>
<td>27 August, 2018</td>
</tr>
<tr>
<td>Prof. Anirban Dasgupta, IIT, Gandhinagar</td>
<td>27 August, 2018</td>
</tr>
<tr>
<td>Prof. Rajagopalan A.N., IIT Madras</td>
<td>23 October, 2018</td>
</tr>
<tr>
<td>Prof. M. M. Nayak, IISc Bangalore</td>
<td>23 October, 2018</td>
</tr>
<tr>
<td>Prof. S.L. Maskara, IIT Kharagpur</td>
<td>23 October, 2018</td>
</tr>
<tr>
<td>Prof. Ram N. Mohapatra, University of Central Florida, USA</td>
<td>4 December, 2019</td>
</tr>
<tr>
<td>Shri Rajesh Behl, SAC, Ahmedabad</td>
<td>09 January, 2019</td>
</tr>
<tr>
<td>Prof. Thomas Mandl, Universität Hildesheim, Germany</td>
<td>08 March, 2019</td>
</tr>
<tr>
<td>Prof. Arbind Lal, IIT Kanpur</td>
<td>26 March, 2019</td>
</tr>
<tr>
<td>Prof. Tathagata Bandyopadhyay, IIM, Ahmedabad</td>
<td>12 April, 2019</td>
</tr>
<tr>
<td>Shri Kaushik Parekh, Space Applications Centre, Ahmedabad</td>
<td>26 April, 2019</td>
</tr>
<tr>
<td>Dr. Narottam Sahoo, Advisor, GUJCOST, Gujarat</td>
<td>01 May, 2019</td>
</tr>
<tr>
<td>Prof. Genorge Ghinea , Brunel University, UK</td>
<td>10 May, 2019</td>
</tr>
<tr>
<td>Dr. Ramnath Prasad, CED, Gandhinagar</td>
<td>02 May, 2019</td>
</tr>
<tr>
<td>Prof. Ram, IUCAA, Pune</td>
<td>30 May, 2019</td>
</tr>
</tbody>
</table>
Faculty Publications

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

During the reporting year, the faculty published two books, edited one volume, and contributed four chapters in books and one hundred forty-six papers in journals and conferences along with nine technical papers.

Books

Edited Books

Chapters in Book
Journal Papers


33


**Conference Papers**


5. Ramesh Kumar, Sharvan Kumar and Amit Sengupta, “Object Identify Using Electrical Impedance Tomography Technique for 


30. Hemlata Tak and Hemant A. Patil, “Novel Linear Frequency Residual Cepstral Features


61. Jignesh S. Bhatt, **Manjunath V. Joshi** and S.S. Vijayashekhar, “A Multitemporal Linear Spectral...


**Book Reviews**


**Technical Papers**


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 received 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:

HONORARY WORK/POSITIONS HELD ON PROFESSIONAL BODIES

Alka Parikh
• Board of Trustees, Utthan, Ahmedabad

Aditya Tatu
• Member, Technical Advisory Committee - Science, Technology and Innovation, GUJCOST

Anish Mathuria
• Member, Faculty Selection Committee, Indian Institute of Information Technology Vadodara (IIIT-V)

Anjan Kumar Ghosh
• Member, Executive Committee, Optical Society of India

Bhaskar Chaudhury
• Life Member, Plasma Science Society of India
• Honorary Member, Data for Modeling Plasmas
• Member, Division of Plasma Physics - Association of Asia Pacific Physical Societies

Deepak Ghodgaonkar
• Fellow, The Institution of Engineers, Malaysia
• Life Fellow, Institution of Electronics and Telecommunication Engineers, India
• Senior Member, Institute of Electrical and Electronics Engineers, USA

Hemant A. Patil
• Member, Project Review Steering Group, Ministry of Electronics and Information Technology (MeitY)’s consortia projects, Government of India
• Member, Academic Advisory Committee Board, Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli, Gujarat
• Member, Board of Studies, G.H.Raisoni Institute of Engineering & Management, Jalgaon, Maharashtra
• Member, Research Progress Committee, Nirma University, Ahmedabad
• Member, External expert, IQAC, Nirma University, Ahmedabad
• Member, International Speech Communication Association
• Member, Asia-Pacific Signal and Information Processing Association
• Member, IEEE
• Member, IEEE Signal Processing Society
• Affiliate member, IEEE Speech and Language Technical Committee
• Member, IEEE Circuits and Systems Society, USA
• Member, International Association for Engineers
• Life member, System Society of India

K. S. Dasgupta
• Expert Member, Annual Review meeting, Community Science Centres Programs & Activities in Gujarat, Gujarat Council on Science and Technology

Manik Lal Das
• Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
• Life Member, Cryptology Research Society of India

Manish K Gupta
• Member, 2018 STEM Policy Committee, Education Department, Government of Gujarat
• Member, Local Project Advisory Committee, DST project “Indicators on Entrepreneurship in Science & Technology, Technology Business incubators and Technology Startups”
• Member, Entrepreneurship Development Institute of India, Ahmedabad
• Member, Technical Advisory Committee, Gujarat State Biotechnology Mission, Department of Science and Technology, Government of Gujarat
• University Coordinator, Gujarat State Student Startup and Innovation Policy, Education Department, Government of Gujarat
• Member, Gujarat State Level Implementation Committee, Start-up/Innovation, Industries Commissionerate, Government of Gujarat
• Chairman, Screening Committee, Gujarat Government Nodal Institute for start-ups, DA-IICT, Gandhinagar
• Member, Due-Diligence & Project Mentoring, Indo-Spain Industrial R&D Project of Global Innovation & Technology Alliance (GITA), A joint venture of Technology Development Board, Department of Science and Technology and Confederation of Indian Industry
• Member, Executive Council, Academy of Discrete Mathematics and Applications
• Senior member, Institute of Electrical and Electronics Engineers (IEEE)
• Member, American Mathematical Society
• Member, Doctoral Committee, Pandit Deendayal Petroleum University, Gandhinagar
Manish Khare
- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, IEEE Signal Processing Society

Sanjeev Gupta
- Member, Governing Council, Gujarat Industrial Research and Development Agency (GIRDA), Vadodara
- Member, Board of Governors, Gandhinagar Engineering College (GEC), Gandhinagar
- Vice Chairperson, Research Council, IIIT Vadodara
- Member, Committee for Government of Gujarat approved DA-IICT as Nodal Institute under its Start-up / Innovation Scheme
- External Expert, SAC 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
- External Expert, IPR Promotion Interview Committee of Scientists, Institute of Plasma Research (IPR), Department of Atomic Energy, Government of India, Ahmedabad
- Member, Advisory Committee for PG Research Center for Mobile Computing and Wireless Technologies, Gujarat Technological University (GTU), Ahmedabad
- Member, Vision Committee for guidance on various issues in RF and Microwave Engineering in order to strengthen the future paths in various disciplines of Science and Technology, Institute of Plasma Research (IPR), Gandhinagar
- Coordinator, Cooperation with SAC under the MoU for cooperation in research and academic activities, Space Applications Centre, ISRO Ahmedabad, Department of Space, Government of India

Saurabh Tiwari
- Member, Association for Computing Machinery (ACM)

Srimanta Mandal
- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, Executive Committee, IEEE Signal Processing Society (Members at Large)

Suman Kumar Mitra
- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, Association for Computing Machinery (ACM)
- Life member, Indian Science Congress Association (ISCA)
- Life member, Indian Unit of Pattern Recognition and Artificial Intelligence (IUPRAI): An affiliated body of International Association of Pattern Recognition (IAPR)
- Member, Information Retrieval Society of India (IRSI)

Sunitha Vadivel Murugan
- Professional Member, Association for Computing Machinery (ACM)
- Life Member, Academy of Discrete Mathematics and Applications (ADMA)
- Member, Board of Studies - Department of Mathematics, Pandit Deendayal Petroleum University, Gandhinagar

Tapas Kumar Maiti
- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, IEEE Robotics and Automation Society
- Life Member, The Institute of Engineers

FELLOWSHIPS/VISITING SCHOLARSHIP

Yash Agrawal
- Received Grant for research visit and prospective collaboration with Technical University of Munich (TUM), Germany

JOURNAL EDITORSHIP

Anish Mathuria
- Associate Editor, Sadhana, Indian Academy of Sciences

Bhaskar Chaudhury
- Guest Editor, Special Issue “Finite Difference Methods: Recent Developments and Applications in Computational Science,” Journal of Computational Science, Elsevier

Hemant A. Patil
- Member, Editorial Board, Engineering Letters, International Association of Engineers

Manik Lal Das
- Associate Editor, IEEE Transactions on Dependable and Secure Computing, IEEE

Manish K Gupta
- Associate Editor, Journal of Applied Mathematics and Computation, Springer
- Associate Editor, AIMS Electronics and Electrical Engineering, AIMS Press
Manish Khare
• Member, Editorial Board, Journal of Advanced Computing and Communication Technologies (JACOTECH), Fifth Direction IT Consulting Pvt. Ltd.

Prasenjit Majumder
• Associate Editor, ACM Transactions on Asian and Low-Resource Language Information Processing, Association for Computing Machinery (ACM)
• Issue Editor, SN Computer Science Journal, Springer Nature

Sanjeev Gupta
• Member, Editorial Board, International Journal on Science and Technology
• Member, Editorial Board, International Journal of Engineering and Technology Management

Suman Kumar Mitra
• Associate Editor, International Journal on Image and Graphics (IJIG), World Scientific Press
• Associate Editor, IET Image Processing, IET

Yash Agrawal
• Member, Editorial Board, Journal of Electronic Research and Application (JERA), Bio-Byword Scientific Publishing
• Member, Editorial Board, Frontiers of Mechatronical Engineering (FME), EnPress Publisher
• Member, Editorial Board, Signal and Information Processing, Whoice Publishing Pte. Ltd.

REVIEWING OF BOOK/JOURNAL/CONFERENCE PAPERS

Book/Book Chapter Reviewing
Madhumita Mazumdar

Manish K Gupta
• Manish K Gupta, Review of Polar codes : a non-trivial approach to channel coding, by Gazi O., Computing Reviews, 7 March 2019, Review #: CR146462
• Manish K Gupta, Review of Cybercryptography : applicable cryptography for cyberspace security, by Yan S., Computing Reviews, 3 May 2019, Review #: CR146559

Journal Paper Reviewing
Anish Mathuria
• International Journal of Information Security, Springer

Anjan Kumar Ghosh
• Optical Engineering, SPIE
• Applied Optics, The Optical Society
• IEEE Sensors Journal, IEEE
• IET Optoelectronics, IET

Bhaskar Chaudhury
• Physics of Plasmas, American Institute of Physics
• IEEE Transactions on Plasma Science, IEEE
• Journal of Physics D: Applied Physics, Institute of Physics
• IEEE Transactions on Microwave Theory and Techniques, IEEE
• Journal of Electromagnetic Waves and Applications, Taylor & Francis
• European Physical Journal: Applied Physics, EDP Sciences
• Journal of Applied Physics, American Institute of Physics
• Plasma Sources Science and Technology, Institute of Physics
• Journal of Parallel and Distributed Computing, Elsevier

Deepak Ghodgaonkar
• IEEE Transactions on Instrumentation and Measurement, IEEE
• IEEE Transactions on Microwave Theory and Techniques, IEEE
• IEEE Transactions on Antennas and Propagation, IEEE

Jaideep Mulherkar
• Quantum Information Processing, Springer
• Advanced Quantum Technologies, Wiley

Hemant A. Patil
• IEEE Transactions on Information Forensics and Security, IEEE
• Computer Speech and Language, Elsevier

Kalyan Sasidhar
• IEEE Transactions in Measurement and Instrumentation, IEEE

Manik Lal Das
• IEEE Transactions on Services and Computing, IEEE
• IEEE Systems Journal, IEEE
• IEEE Transactions on Cloud Computing, IEEE

Manish K Gupta
• Mathematical Reviews, American Mathematical Society
Manish Khare
- Pattern Recognition Letters, Elsevier
- IEEE Access, IEEE
- IEEE Signal Processing Letters, IEEE
- IEEE Transaction on Image Processing, IEEE
- KSII Transactions on Internet and Information Systems, Korea Society for Internet Information
- The Imaging Science Journal, Taylor & Francis
- SPIE Electronic Imaging Journal, SPIE
- IET Image Processing, IET Publication
- Information Sciences, Elsevier
- Journal of Healthcare Engineering, Hindawi
- Signal Image and Video Processing, Springer
- IET Computer Vision, IET Publication
- Journal of Medical Imaging and Health Informatics, American Scientific Publisher
- International Journal on Computational Vision and Robotics, Inderscience Publication
- Mobile Information Systems, Hindawi

Nabin Kumar Sahu
- Journal of Applied Mathematics and Computing, Springer
- Asian European Journal of Mathematics, World Scientific

Puneet Bhatena
- Mobile Networks and Applications, Springer

Sanjeev Gupta
- Journal of Electromagnetic Waves and Applications, Taylor & Francis
- Progress in Electromagnetic Research (PIER), The Electromagnetics Academy
- International Journal of Applied Electromagnetics and Mechanics, IOS Press
- IET Circuits, Devices and Systems Journal, IET Publishing
- Indian Journal of Physics, Springer Science+Business Media
- Journal of the Indian Institute of Science, Springer
- Journal of Biomedical Research, Nanjing Medical University
- Iranian Journal of Electrical and Computer Engineering, Iranian Research Institute for Electrical Engineering
- International Journal on Science and Technology
- ICTACT Journal of Communication Technology, ICTACT
- ADIT Journal of Engineering, A. D. Patel Institute of Technology

Saurabh Tiwari
- IET Software Journal, IET Publishing

Srimanta Mandal
- IEEE Transactions on Image Processing, IEEE
- IEEE Transactions on Cybernetics, IEEE
- Signal Processing, Elsevier
- Multidimensional Systems and Signal Processing, Springer
• Journal of Optical Society of America A, *Optical Society of America*
• ISPRS Journal of Photogrammetry and Remote Sensing, *Elsevier*

**Tapas Kumar Maiti**
• IEEE/ASME Transactions on Mechatronics, *IEEE*

**Yash Agrawal**
• IEEE Transactions on Electromagnetic Compatibility, *IEEE*
• IEEE Transactions on Nanotechnology, *IEEE*
• IEEE Transactions on Electron Device, *IEEE*
• IET Circuits, Devices and Systems *IET Publishing*
• IET Electronics Letters *IET Publishing*
• IET Micro and Nano Letters *IET Publishing*
• IET Microwaves, Antennas and Propagation *IET Publishing*
• IET Power Electronics *IET Publishing*
• International Journal of Circuit Theory and Applications, *John Wiley & Sons Ltd*
• International Journal of Numerical Modelling of Electronic Networks, Devices and Fields, *John Wiley & Sons Ltd*
• COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, *Emerald Publishing Ltd*
• Microelectronics Journal, *Elsevier*
• Microelectronics Reliability, *Elsevier.*

**Conference Paper Reviewing**

**Anish Mathuria**
• Second ISEA International Conference on Security and Privacy (ISEA-SP), Jaipur, 9-13 January 2019.

**Hemant A. Patil**
• International Conference on Acoustics, Speech, and Signal Processing, Brighton, UK, 12-17 May 2019
• Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, Honolulu, USA, 12-15 November 2018.
• INTERSPEECH 2018, Hyderabad, 02-06 September 2018.
• Sixth International Workshop on Spoken Language Technologies for Under-resourced Languages (SLTU’18), Gurugram, Delhi, 29-31 August 2018.

**Manik Lal Das**
• International Conference on Distributed Computing and Internet Technologies (ICDCIT 2019), Bhubaneswar, 9-12 January 2019.

**Manish Khare**

**Srimanta Mandal**
• Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2018), Hyderabad, 18-22 December 2018
Yash Agrawal
• Fourth International Conference on Fuzzy Systems and Data Mining (FSDM 2018), Bangkok, Thailand, 16-19 November 2018
• Fifth IEEE International Conference on Electronics, Computing and Communication Technologies (IEEE CONNECT 2019), Bangalore, 26-27 Jul. 2019

INVITED LECTURES/TALKS/COURSES

Amit Bhatt
• Edge computing on ARM processors, University of Vienna, University of Aurel Vlaicu, Arad, Romania and Obuda University Budapest, March 2019

Amit Mankodi
• Selected Topic in Operating Systems, Anchor Institute Program (AIP), DA-IICT, Gandhinagar, 13-17 May 2019
• Advanced .NET and C#, Anchor Institute Program (AIP), DA-IICT, Gandhinagar, 10-14 Jun 2019
• Python Programming, Six weeks course on Analytics in Agriculture, DA-IICT and Amnex joint venture, 10-21 Jun 2019

Anish Mathuria
• Bitcoin Key Management, TEQIP III Sponsored Faculty Development Program on Blockchain Technology, Sardar Vallabhbhai National Institute of Technology, Surat, 4 June 2019.

Arnab Kumar Ray
• A white hole under the tap, Ahmedabad University, Ahmedabad, 6 March 2019

Hemant A. Patil
• Voice Conversion: Challenges and Opportunities, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA-ASC), Honolulu, Hawaii, USA, 12-15 November 2018.

Kalyan Sasidhar
• IoT and Applications, AD Patel Institute of Technology, Anand, February 2019

Madhumita Mazumdar
• Corral and Confi ne-Colonization and Displacement in the Andaman Islands, Spaces of Occupation Workshop, University of Nottingham Malaysia, Kuala Lumpur, Malaysia, 27 May 2019
• Feminist interventions in online learning, Conference on “Women in the Digital Age,” IIT Gandhinagar, 12 March 2019
• DesigningICTcontentforVulnerableCommunities, Information Communication Technologies and Development Conference, IIM Ahmedabad, 4-7 January 2019

Manish K Gupta
• The beauty of Indian Mathematics, Conference on Ancient Indian Scientist and their contributions, Dindayal Upadhyay Gorakhpur University, Gorakhpur, 23-24 January 2019
• Who Wants to Be a Millionaire?, DST Inspire Science Camp, Bhatinda, Punjab, 26 December 2018
• The Magic of DNA, Department of Biological Engineering, IIT Gandhinagar, 24 August 2018
• The Mathematics of DNA Codes, 84th Annual Indian Mathematical Society Conference, Shri Mata Vaishno Devi University, Jammu, November 2018

Pankaj Kumar
• Data analysis and visualization, PP Savani University, Dhamdod, Gujarat, 24 November 2018

Puneet Bhateja
• A theoretical framework for testing cyber-physical systems, 6th International Conference on Control, Decision and Information Technologies (CoDIT-2019), Paris, France, 23-26 April 2019

Sanjeev Gupta
• Integrated Active Antennas: Challenges and Design Issues, Six-Day Short Term Training Program on “Recent Trends in Antenna Design,” Charotar University of Science and Technology (CHARUSAT), Changa, Gujarat, 22 February 2019
• Microstrip Patch Antennas, GUJCOST sponsored workshop on “Recent Trends in Antenna Design,” Indus University, Ahmedabad, 8 Jul. 2019

Srimanta Mandal
• Evolution of Super-resolution Imaging Techniques, Sarvajanik College of Engineering and Technology, Surat, Gujarat, February 2019
• Background for Pattern Recognition, Government Engineering College, Gandhinagar, June 2019

Sunitha Vadivel Murugan
• Advances in Graph Theory with Applications to Network Sciences, QIP short term course and CEP, IIT BHU, Varanasi, August 2018
Yash Agrawal
- Nanoscale Devices and Circuits, Faculty Development Programme, NIT Warangal, hosted by E&ICT Academy, 21-22 June 2019

Yash Vasavada
- An Introduction to Regression Methods, Silver Oak College, Ahmedabad, 26 December 2018
- Index Modulation for Next Generation Wireless Systems, IIIT Delhi, New Delhi, 8 March 2019

CONFERENCE/WORKSHOP SESSION CHAIR (CONFERENCES/WORKSHOP PARTICIPATION)

Anjan Kumar Ghosh
- International Conference on Fiber Optics and Photonics, 12-15 December 2018, IIT Delhi, New Delhi
- The IEEE Region 10 Symposium 2019, Kolkata, 7-9 June 2019,

Hemant A. Patil
- Session Co-Chair, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, Honolulu, Hawaii, USA, 12-15 November 2018.
- Session Chair, INTERSPEECH 2018, Hyderabad, India, 2-6 September 2018.
- Session Chair, 6th international workshop on spoken language technologies for under-resourced languages(SLTU’18), Gurugram, Delhi, 29-31 August 2018.
- Summer School on Speaker Recognition and Diarization, DA-IICT, Gandhinagar, 06-10 July 2019.
- Brainstorming Workshop on Spoken Language Translation, IIIT Hyderabad, 31 January-1 February 2019.
- Winter School on Speech and Audio Processing (WISSAP), College of Engineering Trivandrum, Trivandrum, 27-29 January 2019.
- Summer School on Speech Production (a satellite event of INTERSPEECH 2018), DA-IICT Gandhinagar, 9-11 September 2018.
- Presented a research paper, Machine Learning in Speech and Language Processing Workshop, Hyderabad, 6 September 2018.
- Samsung AI Conclave, Samsung Research Institute, Bengaluru, 23 August 2018.

Kalyan Sasidhar
- Eleventh International Conference on Communication Systems & Networks (COMSNETS), 7-11 January 2019

Manish K Gupta
- Conference on Ancient Indian Scientist and their contributions, Dindayal Upadhyay Gorakhpur University, Gorakhpur, 23-24 January 2019
- DST Inspire Science Camp, Bhatinda, Punjab, 26 December 2018

Pankaj Kumar
- Presented, Application for Defense using Matlab toolbox, Matlab for Defence, University of South Australia Mawson Lakes, June 2019

Puneet Bhateja
- Sixth IEEE International Conference on Control, Decision and Information Technology, Paris, France, 23-26 April 2019

Sanjeev Gupta
- GUJCOST sponsored workshop on “Recent Trends in Antenna Design,” Indus University, Ahmedabad, 8 July 2019.

Saurabh Tiwari
- Twentifth Asia Pacific Software Engineering Conference (ASPEC 2018), Nara, Japan, 4-7 December 2018
- Twelfth Innovations in Software Engineering Conference (ISEC 2019), Pune, 14-16 February 2019, India
- Sixth International Workshop on Quantitative Approaches to Software Quality (QuASoQ 2018), in conjunction with the 25th Asia-Pacific Software Engineering Conference (APSEC 2018), Nara, Japan, 4 December 2018
Srimanta Mandal
• Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2018), Hyderabad, 18-22 December 2018
• New Trends in Signal Processing, Surat, 8-9 February 2019

Yash Agrawal
• Workshop on Faculty Development Programme on Image Processing using VLSI Architectures, IIT Roorkee, 26-30 March 2019

CONFERENCES/WORKSHOPS COORDINATED

Hemant A. Patil
• Organized, Summer School on Speaker Recognition and Diarization, DA-IICT, Gandhinagar, 6-10 July 2019.

Manik Lal Das
• Conducted, Workshop on ‘Blockchain Technology and Applications,’ 7-8 July 2018, DA-IICT, Gandhinagar.

Manish Khare
• Conducted 5 day training program ‘Image Processing using VLSI Architecture,’ supported by the Center of Entrepreneurship Development (CED), Department of Industries and Mines, Government of Gujarat, DA-IICT Gandhinagar, 20-24 May 2019.

Nabin Kumar Sahu

Prasenjit Majumder
• General Chair (overall Coordinator), ‘Forum for Information Retrieval Evaluation 2018 (FIRE 2018),’ DA-IICT, Gandhinagar, 6-9 December 2019

Saurabh Tiwari

Yash Agrawal
• Organized Short term course on ‘Testing and Verification of VLSI design,’ 7-9 December 2018, DA-IICT Gandhinagar.

Yash Vasavada
• Conducted Winter School on 5G Communications, DA-IICT, Gandhinagar, 7-8 December 2018.

CONFERENCE PROGRAM COMMITTEE

Anish Mathuria
• Member, Program Committee, 2nd ISEA International Conference on Security and Privacy (ISEA-SP), Jaipur, 9-13 January 2019.
• Member, Program Committee, 3rd Workshop on Blockchain Technologies and its Applications, Mumbai and Hyderabad, 4-7 February 2019.

Bakul Gohel
• Member, Program Committee, Workshop on Deep Learning, DA-IICT, Gandhinagar, 29-31 March 2019

Hemant A. Patil
• Chair, Organizing Committee, ISCA Supported Summer School on Speaker Recognition and Diarization, DA-IICT, Gandhinagar, 6-10 July 2019.
• Chair, Organizing Committee, ISCA Supported Satellite Workshop, INTERSPEECH 2018, Speech Production, DA-IICT Gandhinagar, 9-11 September 2018.

Manik Lal Das
• Member, Technical Program Committee, International Conference on Distributed Computing and Internet Technologies (ICDCIT
• Member, Technical Program Committee, ISEA International Conference on Security and Privacy, Jaipur 9-11 January 2019.

Manish Khare
• Member, Program Committee, 11th Asian Conference on Intelligent Information and Database Systems (ACIIIDS 2019), Yogyakarta, Indonesia, 8-11 April 2019.
• Member, Program Committee, International Conference on Control Automation & Information Sciences (ICCAIS 2018), Hangzhou, China, 24-27 October 2018.

Sanjeev Gupta
• Member, National Advisory Board, International Conference on Advances in Electronics and Communication Devices (AECD), Jaipur, 5-6 April 2019.

Srimanta Mandal
• Member, Organizing Committee, Summer School on Speech Signal Processing (S4P), DA-IICT, Gandhinagar, 6-10 July 2019.

Suman Kumar Mitra
• Member, Program Committee, International Conference on Computer Vision, and Image Processing (CVIP 2018), IIIT Jabalpur, 29 September-1 October 2018.

SPONSORED RESEARCH PROJECTS

Anil Kumar Roy

Bhaskar Chaudhury
• Principal Investigator, Multiscale Modeling and Simulation of complex Plasma Dynamics during High Power Millimeter Wave Breakdown, Sponsor: SERB (DST, New Delhi), Duration: 2019-2022
• Principal Investigator, Kinetic Modeling of Large size Negative Ion Sources for Fusion Application, Sponsor: DAE-DRNS; Duration: 2016-2020

Deepak Ghodgaonkar
• Principal Investigator, Development of Microwave Absorber (Carbonyl Iron Filled Silicon Rubber Sheets) in 1 to 8 GHz range, Sponsor: Space Application Centre, ISRO, Ahmedabad (RESPOND Program), Duration: 2017-2020.

Hemant A. Patil
• Principal Investigator, Speech-Based Access of Agricultural Commodity Prices and Weather Information in 11 Indian Languages/Dialects, Sponsor: Department of Information Technology (DIT), Ministry of Communications & Information Technology, Government of India, Duration: 2014-2018
• Co-investigator Investigator, India Digital Heritage (IDH) – A DST Initiative, Sponsor: Department of Science and Technology (DST), Government of India, Duration: 2014-2018

Kalyan Sasidhar
• Co-Principal Investigator, Using mobile sensing mechanism to assess smartphone addiction and its negative impact on students, Sponsor: ICSSR, Duration: 2019-2020.

Manik Lal Das
• Principal Investigator, Study of Privacy, Accountability and Ownership in IoT. Sponsor: Department of Science and Technology, Government of India under Indo-French Collaborative Research Programme under DST-INRIA-CNRS Targeted Programme, Duration: 2016-2019.

Manish K Gupta

Prasenjit Majumder
• A Platform for Crosslingual and Multilingual Event Monitoring in Indian Languages, Sponsor: IMPacting Research, INnovation and Technology (IMPRINT), Ministry of Human Resource Development, Duration: 36 Months
Rajib Lochan Das

- Co-Principal Investigator, Design and Simulation of Beamformig Algorithms and Baseband Technologies for the Satellite on the Move (SOTM) Networks, Sponsor: ISRO, Ahmedabad (RESPOND Program), Period: 2019-2021

Sanjeev Gupta

- Co-Principal Investigator, Development of Microwave Absorbers (Carbonyl Iron filled Silicon Rubber Sheets) in 1 to 8 GHz Range, Sponsor: Space Application Centre, ISRO, Ahmedabad (RESPOND Program), Duration: 2017-2020
- Co-Principal Investigator, Ultra Wideband Dielectric Resonator Antenna, Sponsor: Space Application Centre, ISRO, Ahmedabad, Duration: 2015-2018

Saurabh Tiwari

- Principal Investigator, UCMA: a Toolset to Automatically Analyze Functional Requirements Specified in the Use Cases, Sponsor: Science and Engineering Board (SERB), Government of India, Duration: 2017-2019

Sunitha Vadivel Murugan

- Principal Investigator, Design and Development of Graph Algorithms for Control of Complex Networks with Applications in Computational Biology, Sponsor: Science and Engineering Research Board, Department of Science and Technology, Government of India, Duration: 2018-2021

K. S. Dasgupta

- Electronics & Quality Development Centre, Gandhinagar, 26 September 2018

Sanjeev Gupta

- Nirma University, Ahmedabad, Doctoral Research Committee (DRC) Meeting, 10 August 2018
- Nirma University, Ahmedabad, 3rd Advisory Committee Meeting of Faculty of Directorate of Research and Innovation, 18 August 2018
- Nirma University, Ahmedabad, 36th Meeting of Faculty of Doctoral Studies and Research, 20 September 2018
- Pandit Deendayal Petroleum University, Gandhinagar, PhD Review and Comprehensive Examination, 24 September 2018
- Nirma University, Ahmedabad, Research Progress Committee (RPC) Meeting, 12 October 2018
- Meeting with Principal Secretary, Higher and Technical Education and Additional Chief Secretary, Government of Gujarat, Gandhinagar, 30 November 2018.
- Meeting with Principal Secretary, Higher and Technical Education and Additional Chief Secretary, Government of Gujarat and Delegates from University of Houston, Gandhinagar, 8 December 2018.
- iCreate (International Centre for Entrepreneurship and Technology), Ahmedabad, Meeting with Senior Officials, 19 December 2018
- Gujarat Technological University (GTU), Ahmedabad, External Examiner for PhD students at Research Week, 27 December 2018
- Gujarat Technological University (GTU), Ahmedabad, Meeting of Doctoral Research Committee (DRC) for scrutiny of applications for PhD Supervisors in discipline of EC Engineering, 28 December 2018.
- Manipal University, Jaipur, PhD Thesis Examination, 18 January 2019
- Nirma University, Ahmedabad, Pre-Synopsis Seminar of PhD students, 10 August 2018
- Nirma University, Ahmedabad, Meeting of Research Promotion Committee (RPC), 14 February 2019.

Saurabh Tiwari

- Mälardalen University, Sweden, Post-doctoral Research Fellow, January-October 2018

VISIT TO INSTITUTES/ INDUSTRIES

Amit Mankodi

- Indus University, Ahmedabad, External Examiner for CE410808 - Major Project, 6 May 2019

Anish Mathuria

- Indian Institute of Technology Jammu, 14-15 June 2019
Volvo Construction Equipment AB, Sweden, Research Fellow in collaboration with Mälardalen University, Sweden, on Model-Based Systems Engineering (MBSE), 1 January-October 2018.

Sunitha Vadivel Murugan

• Institute of Mathematical Sciences, 19-23 November 2018
• Institute of Mathematical Sciences, 13 April-12 July 2019

CONSULTANCY WORK

Bakul Gohel
• Mentor, Neuro-TracK-3D, Sponsors: Student Startup and Innovation Policy Grant

Sanjeev Gupta
• Faculty Mentor, CEID Start-up Avadhuta Antennaz Solutions Pvt. Ltd.

AWARDS/HONOURS

Bhaskar Chaudhury
• Best Poster Award, “Convolutional Neural Networks for Predicting Highest Priority Functional Group in Organic Molecules,” at 25th IEEE International Conference on High Performance Computing, Data, and Analytics (HiPC 2018), 17-20 December 2018

Hemant Patil
• APSIPA Distinguished Lecturer, 2018-2019

Saurabh Tiwari
• Best Paper Award, “Adopting MBSE in Construction Equipment Industry: An Experience Report,” at 25th Asia Pacific Software Engineering Conference (APSEC 2018), 4-7 December 2018
• Early Career Research Award (Individual centric), “two year R&D project,” Science and Engineering Board (SERB), Department of Science and Technology (DST), Government of India.

Srimanta Mandal
• Best paper award (runner-up), Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2018), Hyderabad, 18-22 December 2018

COLLABORATIVE ACTIVITIES FOR RESEARCH

Manik Lal Das
• Collaborative research with University Clermont Auvergne, France on the project Study of Privacy, Accountability and Ownership in IoT

Nabin Kumar Sahu
• Collaborative research with Prof. Ram N. Mohapatra, Professor, Department of Mathematics, University of Central Florida, Orlando, USA

ANY OTHER SIGNIFICANT CONTRIBUTIONS

Deepak Ghodgaonkar
• External Examiner-PhD, Faculty of Science, University Putra Malaysia (UPM), Malaysia, June 2019.
• External Examiner-PhD, Faculty of Electrical Engineering, Universiti Taknologi, MARA, Shah Alam, Selangor, Malaysia, December 2018 & January 2019.
• External Expert, Department Promotion Committee (SC to SD), Space Application Centre, ISRO, Ahmedabad, 24 December 2018.
• Participated in Vibrant Gujarat StartUp and Technology Summit, Gandhinagar, 11-13 October 2018
• Branch Chapter Counsellor, IEEE Microwave Theory and Techniques Society, since November 2018.

Hemant A. Patil
• Doctoral Thesis Examiner, School of Electrical and Telecommunications, The University of New South Wales (UNSW), Sydney, Australia, 24 December 2018

Manish K Gupta
Faculty and Staff Updates

**FACULTY**

The faculty consisted of regular faculty, adjunct faculty on full time on a semester basis and visiting faculty who taught specialized courses in all programs. The list of faculty is given in Annexure 3.

**New Faculty**
The following faculty have joined the Institute during 2017-18:

1. Anjan Ghosh as Professor on 13 September 2018
2. Srimanta Mandal as Assistant Professor on 04 October 2018
3. Vinay Palaparthy as Assistant Professor on 04 December 2018
4. Priyanka Singh as Assistant Professor on 18 April 2019
5. Supantha Pandit as Assistant Professor on 24 April 2019
6. Abhishek Jindal as Assistant Professor on 10 June 2019
7. Tapas Kumar Maiti as Associate Professor on 17 June 2019
8. Ahlad Kumar as Assistant Professor on 22 July 2019
9. Shruti Bhilare as Assistant Professor on 31 July 2019

**Faculty Resignation**
1. Laxminarayana Pillutla, Associate Professor on 05 November 2018
2. Rajendra Mitharwal, Assistant Professor on 12 February 2019
3. Amishal Modi, Visiting Assistant Professor on 31 July 2019 (contract ended)

**STAFF**

**New Staff**
The following staff have joined the Institute during 2017-18:

1. Nitu Singh Bhadouria as Student Counselor on 01 January 2018
2. Pankit Gandhi as Secretary on 01 August 2018
3. Shreejesh Kumar as Secretary on 01 August 2018
4. Madesh Gowda T.M. as Library Trainee on 01 August 2018
5. M D Tariqul Islam as Library Trainee on 01 August 2018
6. Pratibha Kumari as Library Trainee on 01 August 2018
7. Alpesh Chauhan as Accounts Assistant on 03 October 2018
8. Parth Vayeda as CEP Officer on 04 October 2018

**Staff Resignation**
1. M D Tariqul Islam, Library Trainee on 29 June 2019
2. Shreejesh Kumar, Secretary on 26 July 2019
The students plan, organize and enjoy a rich array of activities on campus encompassing cultural, social and educational contents through students’ bodies and clubs. They range from music concerts, theaters, folk and classical dances to coding, educational and professional competitions. The Student Body Government (SBG), an elected body of the students consisting of 7 Committees and some 15 Student Clubs provides leadership to these activities. The Institute of Electrical and Electronics Engineers (IEEE) Student Branch at DA-IICT constantly promotes the opportunities that exist in the field of electronics and electrical engineering among students through various educational programs. These activities provide a variety of engagement opportunities to students on the campus and what is learned through organizing and managing them inculcates leadership qualities and communication skills in them, which directly correlate with skills and attributes that employers are seeking of our graduates.

**STUDENT ACTIVITIES**

**Cultural Committee**

**Cultural Weekend (3-5, August)**

The cultural weekend was specially organized for the freshers to make them feel comfortable on the campus and make new friends. The 3-day long event had Cafeteria day, Student Activity Centre (SAC) day and Open Air Theater (OAT) day. Cafeteria day had a treasure hunt organized for the freshers. The SAC day saw some fun events like tug of war, spin and kick and boom with your bum. Finally, on OAT day housie, painting, rangoli, sketching competitions and karaoke night were conducted.

**Eid (22 August)**

The celebration of all festivals is the speciality of the Cultural Committee. Eid was celebrated by distributing sweets among the student community.

**Janmashtami (3 September)**

Janmashtami, the birthday of Lord Krishna, was celebrated with great enthusiasm. The students participated in ‘Matki-Fod,’ regarded as one of the most celebrated festivals at DA-IICT.
Teachers’ Day (5 September)
The invites for the Teachers’ Day were hand-made by the first-year students. The freshers dedicated to the teachers the musical performance, drama, dance act, stand up comedy and pieces of poetry. The students also honoured their teachers by presenting them with mementos.

Ganesh Chaturthi (13-15 September)
Ganesh Chaturthi was celebrated on campus. The celebration ended with immersion of idol of Lord Ganesha.

Maniere (20 September)
The Fashion Night, Maniere, acts as a window for the fashion enthusiasts to showcase their skills as costume designers, thinkers, presenters and show stoppers. Displaying creative and inspiring concepts through fashion designing and ramp walks are the USP of Maniere. The students, individually and as groups presented traditional and modern attire designs before the audience.

Raaga and Rhyme (1-2 October)
Raaga and Rhyme is a music and rhyme competition where students from all batches participated. It included solo, duet, instrumental and group performances of Indian and Western music.

Garba Night (17 October)
Navratri festival is celebrated to worship the nine forms of Goddess Durga, the Goddess of Power. The campus had its share of celebrations on the fifth day of the festival. The students from other Institutions also participated. A group of over 1000 students played Garba in traditional attire and also danced to the beats of the DJ.

Ramleela (22 October)
The victory of Lord Ram over Ravan was celebrated through a dramatic enactment of the story of the victory of good over evil. The play was specifically directed by sophomores and the actors were mostly the freshers. It served as a good confidence booster for freshers. Ravan Dahan, the burning of the effigy of Ravan, the demon King was carried out after Ramleela.

Diwali (27 October)
Diwali, the most celebrated festival, encountered a semester break for the students. The students who stayed back on campus celebrated Diwali in traditional manner.

Rangmanch Drama Night (9 April)
The drama night had three categories: Stage play, Mime and Felicity. Four stage plays and two mime performances were staged. Students from all batches participated with great enthusiasm.

Lohri (14 January)
Lohri is a popular Punjabi folk festival celebrated in the northern regions of the country. It marks the end of the winter season and welcoming the longer days and the Sun's journey to the northern hemisphere. The students gathered at the venue in large numbers, enjoyed the warmth of the bonfire and each other’s companionship.

Makarsankranti (15 January)
Makar Sankranti or Uttarayan refers both to a specific solar day in reverence to deity Surya (Sun) that is observed in January every year. It marks the first day of Sun’s transit into the Makara (Capricorn), marking the end of the month with the winter solstice and the start of longer days. Being the first festival after the winter vacation, students enthusiastically flew kites.

Waltz-Dance Night (21 January)
Dance Nite or Waltz is a dance competition where students from all batches show their enthusiasm and energy in the form of mesmerizing dance performances. Three categories under this event solo, duet/trio and group, were conducted.
Sports Committee
Inter-hostel wing Tournaments
(August - October)
The Sports Committee organized Inter-hostel wing tournaments. The main aim of the tournament was to drive the interest of students towards sports for their overall development. The tournaments included Badminton, Table Tennis, Volleyball, Basketball, Chess, Cricket and Football. A Captain was selected for each hostel wing to make teams. The PG students who do not live in hostels participated by forming their own teams. The tournament was conducted at the beginning of the semester so that the new batches could showcase their talent and meet the seniors of similar talent.

Concours 2018: Annual Sports Festival
(25-28 October)
Concours is recognized as one of the biggest sports festivals conducted by a University in Gujarat. Students from various Universities, Institutes, and Colleges took part in the festival. Sports were Badminton, Table Tennis, Volleyball, Basketball, Chess, Cricket and Football. Students from Pandit Deendayal Petroleum University, Gandhinagar, took away the overall Championship Trophy.

Hostel Management Committee
Cleanliness Drive
With the participation of inmates, Hostel Management Committee (HMC) worked as an interface between the administration and hostel inmates in keeping the hostels clean and to encourage cleanliness etiquette among hostels. The HMC members visited rooms, floors and evaluated them based on various parameters. The rooms and the floors with the highest marks were shortlisted and awarded on the final day.

Annual Festival Committee
Youth Run
The students organized the Youth Run, under the umbrella of the techno-cultural festival of Synapse to demonstrate their support for programs that lead to the betterment of society. It is a great display of what they are passionate about. The Youth Run 2018 was held on 27 October 2018 highlighting the initiatives of Gandhinagar Municipal Corporation and Sports Authority of Gujarat such as Hum Fit toh India Fit.

Synapse 2019 (February 21-24)
Synapse is the annual techno-cultural fest of the students. It is the celebration of culture, technology
and life. It is a time when the student community comes forward to show its intensity, passion and enthusiasm -- be it through participating or organizing artistic, cultural and technology events. In the year 2019, the festival was held during 21-24 February. The festival ended with the celebrity night by Mr. Amit Trivedi, the talented playback icon singer. He mesmerized the crowd with his extraordinarily melodious voice.

**Press Club**

**Freshers Creative Writing Contest (August 2018)**
The Press Club organized a creative writing contest for the freshers. The contest was aimed at motivating students to shed their inhibitions and share their creations with the community. The contest received a positive response from the freshers with some very brilliant creations.

**DA-IICT Theatres Group**

**Gender Sensitization Play (2-3 August 2018)**
The sensitization play was performed specially for freshers to sensitize them about gender discrimination. The event started with a brief speech on gender and sex by the Conveners of the Gender Cell, Kriti Upadhyay and Arnab Gupta, followed by a play written by Prof. Shweta Garg. The play had five segments covering topics such as female abuse and homosexuality. The response from the audience was overwhelming. Freshers were divided into groups of ten along with a mentor of the senior class and they held discussions leading to better interaction of the freshers with the seniors.

**Orientation Street Play and Mime (13 August 2018)**
The Orientation Street Play and Mime were performed for the freshers to make them aware of the theatrics events of DA-IICT and to welcome the new faces to be a part of the DTG family.

**Teachers Day Play (5 September 2018)**
The first Open Theatre event of the autumn semester is the chance for the freshers to showcase their talents. Under the auspices of the Theatre Group, a play is performed by the first-year students directed by the second-year students. This year’s play was a treat with a few third-year and fourth-year students making special appearances. The play was quite gripping as the story revolved around DA-IICT, carrying few punches that cracked up the audience.

**Ramleela play (18 October 2018)**
Ram Leela play was performed on the occasion of Dusshera. The original story of Ram Leela was enacted with some creative twists and a witty and humorous story to make it lively. The play was followed by a monologue depicting the racial and caste system in society and what it would have been like if Lord Rama was witnessing them all. Enacted by first year students, it provided a good participating platform for them.

**Outstation Street Play and Stage Play (24-29 October 2018)**
The DA-IICT Theatres Group went for an outstation competition in BITS Goa’s cultural fest (Waves) to
compete with teams from Colleges all over India. The Group performed well and had a great experience.

**IIIA instation Street Play (26th January 2019)**
The DA-IICT Theatres Group went for a competition in the cultural fest of IIM Ahmedabad-'Chaos' to compete with teams from different colleges all over Gujarat.

**NIFT instation Street Play (17 February 2019)**
The DA-IICT Theatres Group participated at the competition in the cultural fest of NIFT Gandhinagar-'Spectrum', to compete with teams from Colleges all over Gujarat. The Group bagged the second prize.

**Synapse Street Play, Stage Play and Mime (22nd February 2019)**
Synapse is the Annual Cultural fest of DA-IICT. Synapse has theatrical events like Street play, stage play, and mime. In these categories, different college drama clubs took part and performed. Street play is a powerful mode of theater because of its proximity between the audience and actors. Stage play has a live audience, a story, and stage performers. Mime is another mode of theatre where feelings are expressed not in words but through various forms of Drama. The DA-IICT Theatres Group participated in all these events with great enthusiasm. Each event had Judges (experienced artists from the theatre) and winners were selected by them. DA-IICT bagged 1st prize in Mime and 3rd prize in Street Play.

**Sambhav**

**Blood Donation Camps**
The objective of the camp is to educate and spread blood donation awareness among the youth and its benefits. Two camps were organised, one in October 2018 with 118 donors and the second one in October 2019 with 142 donors.

**Visit to Orphanage**
Sambhav has been associated with Special Children Home, an orphanage, for many years. Students visited the orphanage and interacted with the children ranging in the age group of 5-15 who were AIDS victims. For the majority of the students, this was their first such visit. The interactions they had with the children were enriching.

**Visit to Vigyan Shala**
Vigyan Shala, an initiative of Sambhav, with a group of DA-IICT student volunteers visited nearby schools in August 2018 and in February and April 2019 and demonstrated simple scientific experiments to school children. This was altogether a new learning and the School appreciated the initiative.

**Book Sale**
Sambhav carried out a book sale in August 2018 and January 2019. The primary aim of it was to collect used books from students and sell them to the students on campus at a lower price.

**Swachhata Hi Sewa**
A cleanliness drive was organized on 2nd October 2018 in collaboration with SBG to contribute towards the Swachhta Hi Seva Campaign. As a part of this initiative, the entire DA-IICT community joined hands in cleaning the area stretching from the DA-IICT wall adjacent to NIFT to Reliance Chokdi and surrounding areas.
Electronics Hobby Centre
Orientation for first year B.Tech and M.Tech students (27 August 2018)
An orientation for first year B.Tech and M.Tech students on the activities of the club was conducted. Demonstrated some of the completed projects, such as Bluetooth Controlled Bot and CNC Plotter.

The club conducted the following activities:

Session I (18 September 2018)
Introduction to Arduino Board and other Microcontrollers.

Session II (1st October 2018)
“Dimming an LED” and “Creating your own Heart Beat Sensor”.

Session III (Planning for SSIP Hackathon) (14 November 2018)
Brainstorming session on project topics provided by SSIP Gujarat and discussion on implementation which included selection of projects and topics and teams.

Session IV (5 February 2019)
Making of Simple chat application between two Arduino Boards.

Session V (12 February 2019)
Demonstration of sensors, brainstorming on how it works. Implementation of Hand Gesture controlled VLC Media Player.

Microsoft Student Technical Club
Orientation (16 August)
An orientation session was conducted for all the fresh students. Students were briefed on the club’s activities.

HTML Session (27 September)
An introductory hands-on session of HTML was conducted for first year students in which they were briefed on Web Development and HTML.

JS Session (27 September)
Hands-on introductory session of JavaScript was conducted for second year students in which they were briefed on JavaScript and its applications.

CSS Session (1 October)
Hands-on introductory session of CSS was conducted in which students were informed of CSS, the language and its uses in industry.

ReactJS Session (4 October)
Hands-on introductory session of ReactJS was conducted in which students were told about the ReactJS library, its uses in industry, and how to start working with it.

Imagine Cup Session (31 October)
Imagine Cup is an annual competition conducted by Microsoft and a large number of developers around the globe participate in it. An introductory session was conducted in order to familiarise the students with the competition.

Winter of Code (12 December – 14 January)
The program was conducted by MSTC in which the projects of different Development Stacks were presented to students from which they selected one and developed it from scratch. Winners were: Aniket Modi, Dhyey Gami, Param Modi, Neel Makadiya, Deven Vachhani and Meet Patel.

Heritage Club
Smt. Shovana Narayan, a Padma Shri Awardee performed Kathak Dance on 4th September, 2018.

Shri Bhungar Khan, a Kartar Player, and his troupe performed Rajasthani folk music and dance on 5th February, 2019.
Flutter Session (19 January)
A workshop on cross-platform app development using flutter was conducted. Over 150 students got an insight into real-world applications of cross-platform app development. Shri Parth Jansari, the co-founder of Zypher Tech. spoke at the session.

Face-off (11 April)
The annual coding competition was held with twisted rules and regulations to make the challenge more interesting and trickier. With over 180 participants, the event was a huge success. Three prizes were given to the winners of the competition.

IEEE Student Branch DA-IICT

Engineers’ Dilemma – 23 August 2018
The event was organised in association with Endeavor Careers, Gandhinagar. It was a session on MBA/MS/CAT and 115 students participated. The session focussed on dilemma of Engineers choosing areas of higher studies and their processes.

Tachyon’18 – 15 September 2018
A two day bootcamp was conducted on Web Crawling, Web Scraping and Search Engine Optimization. One hundred and twenty seven students which included 20 IEEE members participated.

i.Decipher – 28 September 2018
The event was online where participants cracked the answer hidden behind a group of images. There were 150 participants including 100 IEEE members.

i.OHunt – 3 October 2018
The event was an online Treasure Hunt involving general knowledge and puzzle solving. The 150 participants included 100 IEEE members.

Tic Tech Toe’18 – 8 October 2018
The event was an online hackathon for app and web development. There were 180 participants including 130 IEEE members.

i.Fest ‘18 – 5-7 October 2018
A three day annual technical fest involving over 23 technical, non-technical and fun events was conducted with over 2500 registrations. Every year, students from all over India participate and almost from all colleges in Gujarat. i.Fest is so popular that the techie come forward and boost industry interaction through various sessions and workshops. i.Fest introduced four new events this year: Roboclash, IoT auction, WIE Hackathon, and i.papyrus. Mr. Sharad Shukla, Scientist, ISRO and Mr. Bhavesh Manglani, Co-founder, Delhivery and RedBull Basement University spoke at the Fest.

Tachyon – March 2019
IEEE IAS DA-IICT Student Branch Chapter organized Tachyon’19, an all India Industry Applications Society Students Conclave, a three-day mega event. This witnessed an extraordinary conglomeration of in-vogue topics of a faster, newer world like 5G, Blockchain, Artificial Intelligence and Machine Learning.

Synergy – 9 April 2019
Synergy was organized by WIE. The event concentrated on Hardware and Software Project presentations. Seventy students have participated in the contest.

Industry Application Society (IAS) DA-IICT Day Celebration – June 2019
It was a workshop which had eminent speakers. They spoke on the IAS and its importance in today’s technical world. Forty six students participated.

Summer School – 17-23 June 2019
Summer school is a seven day technical school organized by IEEE DA-IICT. It helps the students to enhance their skills in a particular technical field. In 2019, the topic was Machine Learning focusing on Android Studio and Blockchain. One hundred fifty students have participated.
Workshop on Ethical Hacking and Cyber Security – 30 September-1 October 2018
The Workshop was on ethical hacking and machine learning. There were 83 participants including 66 IEEE members.

IAS Webinar Screening – 10 September 2018
Two top IEEE IAS webinars were screened for students. Seventeen students have attended the screening.

IEEE DA-IICT Student Chapter: 2018-19
The Chapter pursued its membership drive, mobilisation of scholarship fund and technical projects. The Chapter also organised weekly/fortnightly events via it’s SIG Embedded, SIG Mobile Apps, SIG Machine Intelligence and SIG Humanitarian Technology. These sessions help the budding engineers get an insight in the field and improve their skills.

Awards and Achievements:
- Travel grant for the IAS annual meet was awarded to Raksha Rank and Harsh Patel
- First Prize for Most Happening Chapter in IAS CMD.
- Third Prize for IAS CMD Humanitarian Contest awarded to Harsh Patel, Rahil Patel and Smit Shah.
- Awarded as the Best Student Branch for 2018-19 in IEEE Gujarat Section at Sampark 2019.
- Rahil Patel and Darshak Patel were awarded as the best volunteers by IEEE Gujarat Section at Sampark 2019.

ACHIEVEMENTS
The sports contingent participated in the following sports festivals:

GLS’ Titanium Jural Sports Fest, 2018
(31 October- 2 November, 2018)
They won as follows:
- Long Jump: 1st Position
- Shotput: 3rd Position
- Discuss Throw: 3rd Position
- Badminton Girls: Winners
- Basketball Boys: Runners Up
- Volleyball Boys: Runners Up
- Basketball Girls: Semi-finalist
- Badminton Boys: Semi-finalist
- Volleyball Girls: Semi-finalist
- Football Boys: Quarter-finalist

Khel Mahakumbh (October 2018)
The results were as follows:
- Football (Women): Runners up
- Football (Men): 3rd Place
- Basketball (Men): Quarter-finalist

IIM Ahmedabad, ‘Shaurya 18’ (October 2018)
They won as follows:
- Athletics: Third position
- Badminton Girls: First Runners up
- Badminton Boys: Semi-finalist
- Carrom: Semi-finalist
- Chess: Semi-finalist
- Football Boys: Quarter-finalist
- Tennis: Semi-finalist
- Volleyball Boys: First Runners-up
- Volleyball Girls: Semi-finalist

PDPU ‘Petrocup 2019’ (14-18 February, 2019)
The results are as follows:
- Badminton Girls: Runners-up
- Football Girls: Runners-up
- Lawn Tennis Girls (Team Event): Runners-up
- Badminton Boys: Semi-finalists
The results were the following:
- Badminton Boys: Winners
- Table Tennis Boys: Winners
- Table Tennis Mixed: Winners
- Carrom: Semi-finalists
- Lawn Tennis Boys Singles: Semi-finalists
- Lawn Tennis Boys (Team Event): 4th position
- Long Jump: 3rd position
- Shot Put: 4th position

Reliance Foundation Youth Sports (January 2019)
The football men’s team had reached the quarter-finals stage of the tournament in the College Boys Category. The following players won laurels:
- Ashish Sharma, Winner of the Golden Ball with 8 goals in 5 matches and Runner-up for the Golden Boot.
- Dveep Chaudhari, Runner-up for Golden Glove with 4 clean sheets out of 5 matches.

EDI - ‘EQUIPO 19’ (6-10 January 2019)
The results were as follows:
- Football Boys: Winners
- Table Tennis Mixed: Runners-up
- Volleyball Boys: Quarter Finals
- Basketball Boys: Quarter Finalists

The Debate Club participated in AYMUN (Asia Youth Model United Nations) (25 November 2018). The results were as follows:
- Rajat Garg, Best Delegate
- Saumya Doshi, Best Delegate
- Rohit Chaku, High Commendation
Rajat Garg has won the best delegate award in HLCC Model United Nations 2018.
Fifteen students represented DA-IICT at Ahmedabad Quiz Fest 2018. Chahak Mehta, Anish Deshpande and Dhruv Charan finished in 5th place in the MELA quiz.

Following are the achievements of Music Club:
- PDPU - Solo singing - Shivam Pandit: 1st prize
- BITS GOA – Alaap, Aditya Pandit: 3rd prize
- BITS GOA – SOLO, Shivam Pandit: top 5
- BITS GOA - INDIAN ROCK: 1st prize

The Chess Club represented DA-IICT in Spree 2019 (29-31 March 2019) held at BITS, Goa and won the Runners-up prize.

Following students were selected for the Google Summer of Code (GSoC 2019) in different organizations:
- Mrinal Dutta, M.Sc (IT) 2nd Year, Percona
- Deepak Kumar, M.Sc (IT) 2nd Year, InterMin
- Himanshu Sahu, M.Sc (IT) 2nd Year, CERN
- Dhyey Thakor, M.Sc (IT) 1st Year, Mozilla
- Amarnath Karthi, B.Tech 4th Year, CERN
- Mohamed Shadab, B.Tech 3rd Year, University of Nebraska-Lincoln, USA
- Pranav Pandey, B.Tech 2nd Year, Rocket.Chat
- Kartikeya Gokhale - B.Tech 2nd Year, Percona
- Akshay Jain - M.Sc (IT) 1st Year, Julia (Honorable Mention for getting selected in JSoC)
- Abhinav Raj, B.Tech 2nd Year, became GSoC mentor in FOSS Asia
DA-IICT Alumni Association, a separate registered legal entity, has now more than 6000 members worldwide. The Association is enthusiastically involved in networking, mentoring and organizing placement assistance and internships to the fellow alumni and current students.

DA-IICT Student Chapter of the Association organized an Alumni Reunion during 23-24 February 2019, coinciding with Synapse -- the festival of students. The Alumni, along with their families, attended the reunion and the festival.

The reunion began with a tour of the campus reminiscing campus life and beholding the physical changes that took place on the campus, particularly the new hostel blocks. The Reunion marked several events such as ‘Alumni Quiz,’ organized by Headrush, ‘Giftagoo’ where alumni recited their experiences at the Institute, and ‘Acoustic Night,’ a music night organized by the Music Club with improvised singing by Alumni. The Association also discussed various plan of activities and one of them is introducing Alumni Lecture Series at the Institute -- alumni from Industry and Universities would stop by and deliver talks during week-ends. The other activities planned are preparation of an alumni directory with areas of interest, organize regular regional meets, network with all batches, encourage juniors and current students to network with 3-5 seniors, establish a formal scheme for communication, relocation, study abroad, design and offer a student’s exchange program and ways to contribute to the Institute.

On the second day, a sports event was organized in the forenoon followed by the Director’s address and discussion on the working of the Association. The final event was the “Dance Cypher,” organized by the Dance Club of Students.

During the Orientation Program of 2019-20 batch, Alumni closely interacted with fresh undergraduate and post-graduate students.
The year gone by provided many opportunities for the Resource Centre (RC) to interact with the users and provide augmented services. The electronic resources increased its outreach covering post-graduate and PhD scholars as the key users. The training programs organised by RC further refined the information searching capabilities of these user groups. Continuing information sharing with other libraries, empowering users with enhanced awareness about information searching, plagiarism checks, research writing, journal selection; addition of new database; data gathering and data compilation for accreditation and ranking purposes were some of the key activities undertaken during the reporting period.

The Preferred Study Destination
The RC occupancy data for the calendar years 2018 and 2019 shows that there have been significant rise in faculty, staff, researchers and students using RC. The median occupancy was 122% in 2019 as against 98% in 2018. The peak times were during the examination, with occupancy, as high as 214%. The users showed considerable interest in the diverse and rich collection.

The digital resources witnessed high usage for which RC facilitated access by providing PCs with high-speed internet connection. The informal seating arrangement encouraged collaboration between students for their project work.

<table>
<thead>
<tr>
<th>Collection Type</th>
<th>Added during 2018-19</th>
<th>Total as of 31 July 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>421</td>
<td>32028</td>
</tr>
<tr>
<td>E-books</td>
<td>1198</td>
<td>13291</td>
</tr>
<tr>
<td>CDs/DVDs &amp; AV Collection</td>
<td>10</td>
<td>3961</td>
</tr>
<tr>
<td>Theses &amp; Dissertations</td>
<td>72</td>
<td>759</td>
</tr>
<tr>
<td>Bound Volumes of Journals</td>
<td>141</td>
<td>2940</td>
</tr>
</tbody>
</table>

A new database, Bloomsbury Design Library, was added to the resources for the design students. A short video-based introductory session was also conducted for them to familiarise with its various features and unique collection.

Orientation of Fresh Students
The 2018-19 batches of students were introduced to the collection and services during their orientation sessions followed by a visit to various facilities of RC. This has made a positive impact on developing a reading culture among the fresh students. Fresh PhD scholars were given focused orientation on the use of subscribed sources of scientific information. They were acquainted with various capabilities of each source, its integration with other applications, which will help them to save time for information search.

Author Workshops
Two author workshops were organized for faculty and students with experts from publishers; Springer Nature and Elsevier. The sessions elaborated on choosing the right journal, finding out predatory journals, understanding authors instructions, reasons for manuscript rejection, plagiarism check, citation analysis and using external contents such as diagrams, pictures and copyright.
Introduction of Research Assist Tool
The faculty and research scholars at DA-IICT spend a fair amount of their time in searching for various electronic resources. One of the key challenges they faced is to access the resources that are scattered across multiple sources. Hence, to reduce search redundancy, a research assist tool, RAx was introduced. It is a personalized AI-powered research assistant for academic research incubated at the DA-IICT Centre for Entrepreneurship and Incubation by Prof. Sourish Dasgupta.

An introductory session was conducted for faculty and researchers to gain insights into various features of the tool. External Experts on information searching, Academicians and Librarians attended the session and shared the challenges faced by the researchers while searching for relevant information. A demonstration of the tool with applications clarified the queries of participants.

Training Library Professionals
The RC recruits every year 4 fresh post graduates in Library Science as Trainees. The 4 library trainees recruited in 2018 were trained to manage the circulation counter responsibilities and other supporting jobs. They were also exposed to new skills such as developing a website using open source software, presentation of learning topics, curating the faculty publications data using excel, data mining from the databases such as ScienceDirect and Web of Science. Another 4 library trainees recruited in 2019 were successfully inducted.

The RC hosted 7 MLibISc students from Central University of Gujarat, Gandhinagar, SP University, Vallabhbh Vidya Nagar and Gujarat University, Ahmedabad for internship.

Shri Manish Mankad, Librarian
- Member, Springer Nature User Experience Advisory Group.
- Workshop on Legal Aspects of e-Books’ at the Springer Nature e-books Conclave, Jaipur.

Publications

Book Chapter

Conferences Papers
Second International Conference on Librarianship Development through Internet of Things & Customer Service (LDITCS), Gujarat Power Engineering & Research Institute, Mehsana, 6-8 February 2019. ISBN: 9789353463250


International Conference on Knowledge Organisation in Academic Libraries (I-KOAL-2018), Library Professionals Association (LPA) and University of Hyderabad, 26-27 November 2018. ISBN: 9789388342148


International Conference on Marching Beyond the Libraries: Managerial Skills and Technological Competencies (ICMBL 2018),” Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India, 16-17 November 2018. ISBN: 9788193879771


International Conference on Scholarly Communication, Open-access Publishing and Ethics (SCOPE-2018), School of Planning and Architecture, Vijayawada, Andhra Pradesh, India, 25-26 October 2018. ISBN: 9789387593923


2. **Shashikumara AA**, Manish Mankad and **Prasanna Kumar Muduli**, “Collaborating ETDs to Reach the Unreached,” pp. 140-149.

**Conference, Seminar, Workshop Attended**

**Prasanna Kumar Muduli**, Assistant Librarian

- International Conference on Exploring the Horizons of Library and Information Sciences: from libraries to knowledge hubs,” Documentation Research and Training Centre (DRTC), Bengaluru, 7-9 Aug. 2018
- Workshop on Implementing Successful Library & Information Teaching Sessions in Academic Libraries, Indian Institute of Technology Gandhinagar, Gandhinagar, 18 Aug. 2018

**Shashikumara AA**, Assistant Librarian

- ADINET quarterly seminar on Rethinking Role of Libraries in National Development, Central University of Gujarat, Gandhinagar, 9 Mar. 2019
- Seminar on the Role of Communication in 21st Century, School of Library and Information Science, Central University of Gujarat, Gandhinagar, 27 Aug. 2018
- Workshop on Implementing Successful Library and Information Teaching Sessions in Academic Libraries, Indian Institute of Technology Gandhinagar, 18 August 2018

**Visitors to RC**

- Dr. Rajib Badyopadhyay, Head, Department of Science, PDPU, Gandhinagar
- Dr. Roshni Solanki, Assistant Registrar, PDPU, Gandhinagar
- Dr. Santosh KV, Deputy Director (Research), Manipal University
- Dr. Nabi Hasan, Librarian, IIT Delhi
- Students and faculty from SDJ International College, Surat – on study tour
- The following group of students visited RC on study tour:
  - Post-graduate students from the Library and Information Services, Gujarat University along with their faculty.
  - MLISc students of Maharshi Dayanand Saraswati University.
  - Mahapragya Vidya Niketan students from standards 10th, 11th and 12th.
ICT
The Information and Communication Technology (ICT) Committee works towards the mission to provide the best computing facilities possible for faculty research and student learning. During the reporting year, the Institute has invested Rs. 150 lakh to upgrade ICT infrastructure and acquire new hardware and software.

DA-IICT has modern eco-friendly, fully networked campus through high-end intelligent CISCO switch with 10G support, optical fiber cable connectivity between various buildings and 1Gbps Internet Bandwidth. The students on the campus have access to high speed Wi-Fi connectivity. This helps them access online class lectures and assignments. Institute’s wireless network consists of 120 access points spread over various campus locations.

There are over 1220 desktop PCs for laboratories, faculty and staff. Additionally, Laptops are provided to faculty members. A Data Center with 30 servers provides various IT services. The Institute has deployed Moodle open source software online learning management for hosting course contents and submission of assignments. The Network Attached Storage (NAS) provides storage space for post graduate Students and Doctoral Scholars.

The Institute has deployed High Performance Computing (HPC) cluster to meet the computing requirements of the B.Tech (ICT) Computational Science Program. Another setup of four high-end computing servers have been deployed for Research Scholars. For efficient use of these servers, provisions have been made for off-campus access for faculty and Doctoral Scholars via VPN.

The Institute has subscribed to campus-wide licenses of the popular scientific software like MATLAB, LabVIEW, Netsim Academic with tools. This is important since most of the virtual instruments have gone through major changes.

The Cadence Electronic Design Automation Suite License was renewed and upgraded. To facilitate the design activities of M.Des (Communication Design) students, 20 licenses of Adobe CCT were subscribed. Turnitin, an anti-plagiarism software and campus software agreement licenses were renewed.

In the new Hall of Residence for Men (Hostel), 30 high-end wireless access points and CCTV and surveillance system were set up.

LABORATORY
During the reporting year, equipment and devices worth Rs. 40.00 lakh were procured for the Laboratory. They were electronics instruments and kits, sensors, boards, audio-visual equipment and consumables and biometric attendance devices for student attendance.

CAMPUS
The following infrastructure projects were completed:

- Construction of New Hall of Residence for Men (Hostel) having an occupancy provision for 476 students.
- Extension of Laboratory building with an additional 172 seats.
- Renovation of washrooms in Laboratory block.
- Refurbishing the Resource Centre preview room and converting it as a smart classroom.
- Seating capacity of 460 seats in Food Courts increased to 690.
- Tensile structures of Food Courts were refurbished.
- A car park to accommodate 40 cars behind Lecture Theatre-1 and a two-wheeler park near HoR Women were constructed.
### MANAGEMENT

#### Academic Council

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman</td>
<td>Prof. K.S. Dasgupta</td>
<td>Director, DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Shri K. Narayan</td>
<td>Management Consultant, Reliance Group, Mumbai</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Surendra Prasad</td>
<td>Professor, IIT Delhi, New Delhi</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. David Kolipillai</td>
<td>Professor, IIT Madras, Chennai</td>
</tr>
<tr>
<td>Member</td>
<td>Shri Tapan Misra</td>
<td>Director, Space Application Centre, Indian Space Research Organisation, Ahmedabad</td>
</tr>
<tr>
<td>Member</td>
<td>Shri Suresh Rangachar</td>
<td>President, Reliance Communications Limited, Mumbai</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Sanjeev Gupta</td>
<td>Dean (Research &amp; Development), DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Suman K Mitra</td>
<td>Dean (Academic Programs), DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Naresh Jotwani</td>
<td>Professor, DA-IICT, Gandhinagar</td>
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<td>Member</td>
<td>Prof. Sanjay Srivastava</td>
<td>Professor, DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Binita Desai</td>
<td>Professor, DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Secretary</td>
<td>Shri Soman Nair</td>
<td>Executive Registrar, DA-IICT, Gandhinagar</td>
</tr>
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</table>

#### Finance Committee

<table>
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<tr>
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<tbody>
<tr>
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<td>Director, DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Shri Suresh Rangachar</td>
<td>Trustee, Dhirubhai Ambani Institute of Information and Communication Technology Society, Mumbai</td>
</tr>
<tr>
<td>Member</td>
<td>Shri Shrenik Vaishnav</td>
<td>Vice President &amp; Head (Consolidation), Reliance Communications Limited, Mumbai</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Suman K Mitra</td>
<td>Dean (Academic Programs), DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Secretary</td>
<td>Shri Soman Nair</td>
<td>Executive Registrar, DA-IICT, Gandhinagar</td>
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#### Board of Studies

<table>
<thead>
<tr>
<th>Position</th>
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<th>Affiliation</th>
</tr>
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<tbody>
<tr>
<td>Chairman</td>
<td>Prof. Suman K Mitra</td>
<td>Dean (Academic Programs), DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Convenor</td>
<td>Prof. Manik Lal Das</td>
<td>Convenor, Post-Graduate Programs, DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Sanjeev Gupta</td>
<td>Dean (Research &amp; Development), DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Ranendu Ghosh</td>
<td>Dean (Students), DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Asim Banerjee</td>
<td>Convenor, Placement Committee, DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Anil K Roy</td>
<td>DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member</td>
<td>Prof. Hemant Patil</td>
<td>DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td>Member Name</td>
<td>Designation</td>
<td></td>
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<tr>
<td>------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Prof. Manish Khare</td>
<td>Coordinator, M.Sc (IT) Program, DA-IICT, Gandhinagar</td>
<td></td>
</tr>
<tr>
<td>Prof. Vishvajit Pandya</td>
<td>Coordinator, M.Des (CD) Program, DA-IICT, Gandhinagar</td>
<td></td>
</tr>
<tr>
<td>Prof. Biswajit Mishra</td>
<td>DA-IICT, Gandhinagar</td>
<td></td>
</tr>
<tr>
<td>Prof. Shweta Garg</td>
<td>DA-IICT, Gandhinagar</td>
<td></td>
</tr>
<tr>
<td>Prof. Pratik Shah</td>
<td>Indian Institute of Information and Communication Technology Vadodara, Gandhinagar (Alumnus of DA-IICT)</td>
<td></td>
</tr>
<tr>
<td>Shri Hasit Kaji</td>
<td>Tata Consultancy Services (Industry Representative)</td>
<td></td>
</tr>
<tr>
<td>Dr. Sumitesh Sarkar</td>
<td>Space Application Centre, Indian Space Research Organisation (Nominated by the Academic Council)</td>
<td></td>
</tr>
<tr>
<td>Prof. Sanjay Chaudhary</td>
<td>Professor and Head (Research), Institute of Engineering and Technology (IET), Ahmedabad University, Ahmedabad (Nominated by the Academic Council)</td>
<td></td>
</tr>
</tbody>
</table>

**Internal Quality Assurance Cell**

<table>
<thead>
<tr>
<th>Member Name</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. K.S. Dasgupta</td>
<td>Director, DA-IICT - Chairman IQAC</td>
</tr>
<tr>
<td>Prof. Anil Roy</td>
<td>Director, IQAC</td>
</tr>
<tr>
<td>Shri Suresh Rangachar</td>
<td>Reliance Communications – Management Member</td>
</tr>
<tr>
<td>Shri Soman Nair</td>
<td>Executive Registrar, DA-IICT – Administrative Member</td>
</tr>
<tr>
<td>Prof. Binita Desai</td>
<td>Chairperson, Gender Cell, DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. Suman Mitra</td>
<td>Dean (Academic Programs), DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. Sanjeev Gupta</td>
<td>Dean (Research &amp; Development), DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. Ranendra Ghosh</td>
<td>Dean (Students), DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. Maniklal Das</td>
<td>PG Convenor, DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. Asim Banerjee</td>
<td>Placement Committee Convenor, DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. Sanjay Srivastava</td>
<td>Alumni Board Convenor, DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Prof. V. Sunith</td>
<td>UG Convenor, DA-IICT – Faculty Member</td>
</tr>
<tr>
<td>Shri Paul Cherian</td>
<td>Head, HR, DA-IICT – Administrative Member</td>
</tr>
<tr>
<td>Shri Nilesh Ranpura</td>
<td>ASIC, eINFOCHIPS, – Member from Employer</td>
</tr>
<tr>
<td>Shri Giridharan Surendran</td>
<td>FactSet Systems, Hyderabad, – Member from Employer</td>
</tr>
<tr>
<td>Shri Yash Shah</td>
<td>SBG Convenor, DA-IICT, – Student Member</td>
</tr>
<tr>
<td>Ms. Ishita Jain</td>
<td>Student, DA-IICT, – Student Member</td>
</tr>
<tr>
<td>Ms. Shivani Thakkar</td>
<td>Student, DA-IICT, – Student Member</td>
</tr>
<tr>
<td>Shri Amit Kumar Shah</td>
<td>Alumnus, DA-IICT, – Alumni Member</td>
</tr>
<tr>
<td>Dr. Jayanti Ravi</td>
<td>Sarjan Foundation NGO, – NGO Member</td>
</tr>
</tbody>
</table>
INSTITUTE OFFICIALS

Director
Prof. K S Dasgupta

Deans

Academic Programs
Prof. Suman K Mitra

Research and Development
Prof. Sanjeev Gupta

Students
Prof. Ranendu Ghosh

Executive Registrar
Shri Soman Nair

Head-HR and Administration
Shri Hasendrasinh Jhala

Librarian
Shri Manish Mankad

Internal Committees

Undergraduate Committee
Prof. V Sunitha, Convenor
Prof. Jaideep Mulherkar, Member
Prof. Mukesh Tiwari, Member
Prof. Bharani Kolippara, Member
Prof. Manish Narwaria, Member
Prof. Yash Agarwal, Member

Postgraduate Committee
Prof. Manik Lal Das, Convener
Prof. Binita Desai, Member
Prof. Aditya Tatu, Member
Prof. Arnab Roy, Member
Prof. Manish Khare, Member
Prof. Saurabh Tiwari, Member
Prof. P. Kalyan Sasidhar, Member

Laboratory Committee
Prof. Suman K Mitra, Dean (Academic Programs), Convener (ex-officio)
Prof. Manik Lal Das, PG Convener, Member (ex-officio)
Prof. V Sunitha, UG Convener, Member (ex-officio)
Prof. Yash Agrawal, Member
Shri Rajendra Shah, Lab Superintendent (ex-officio Invitee)

Research Promotion Committee
Prof. Manjunath V. Joshi, Convener
Prof. Vishvajit Pandya, Member
Prof. Deepak Ghodgaonkar, Member
Prof. Hemant A Patil, Member
Prof. Biswajit Mishra, Member
Prof. Bhaskar Chaudhury, Member

ICT Committee
Prof. Bhaskar Chaudhury, Member
Prof. Rajib Lochan Das, Member
Prof. Rajendra Mitharwal, Member
Shri Soman Nair, Executive Registrar, Member (ex-officio)
Shri Nimesh Patel, Manager (IT & Systems), Member (ex-officio)

Placement Committee
Prof. Asim Banerjee, Convener
Prof. P M Jat, Member
Prof. Yash Vasavada, Member
Prof. Gagan Garg, Member
Prof. Rutu Parekh, Member
Ms. Sneha Thakker, Manager, Placement, Member (ex-officio)

Resource Centre Committee
Prof. Prasenjit Majumdar, Convener
Prof. Gautam Dutta, Member
Prof. Madhumita Mazumdar, Member
Prof. Shweta Garg, Member
Shri Soman Nair, Executive Registrar, Member (ex-officio)
Shri Manish Mankad, Librarian, Member (ex-officio)

Web Committee
Prof. Bharani Kolippara, Convenor
Prof. Rajendra Mitharwal, Convenor
Prof. Amit Mankodi, Member
Shri Nimesh Patel, Manager (IT & Systems), Member

CEP Committee
Prof. Amit Bhatt, Convenor
Prof. Manish Gupta, Member
Prof. Biswajit Mishra, Member
Prof. Rajib Lochan Das, Member
Shri Parth Vayeda, CEP Officer, Member (ex-officio)
**Annual Report Committee**
Shri Soman Nair, Executive Registrar, Convener (ex-officio)
Prof. Suman K Mitra, Dean (Academic Programs), Member (ex-officio)
Prof. Sanjeev Gupta, Dean (R&D), Member (ex-officio)
Prof. Ranendu Ghosh, Dean (Students), Member (ex-officio)
Prof. Asim Banerjee, Convener, Placement Committee, Member (ex-officio)
Prof. Anish Mathuria, Member
Prof. Shweta Garg, Member
Shri Manish Mankad, Librarian, Member (ex-officio)

**Disciplinary Action Committee**
Prof. Ranendu Ghosh, Dean (Students), Convener
Prof. Gagan Garg, Warden, HOR-Men, Member (ex-officio)
Prof. Shweta Garg, Warden, HOR-Women, Member (ex-officio)
Shri Jigar P Yagnik, Dy. Registrar, Member (ex-officio)
Student Representatives – two nominated students

**Gender Cell**
Prof. Binita Desai, Convener
Prof. Suman K Mitra, Dean (Academic Programs), Member (ex-officio)
Prof. Shweta Garg, Warden, HOR-Women, Member (ex-officio)
Ms. Geeta Mehta, Chief Account Officer, Member
Prof. Usha Neelakatan (LDCE) – External Member
Student Representatives – two nominated students

**Student Activities Council**
Prof. Ranendu Ghosh, Dean (Students), Convener
Prof. Rahul Muthu, Convener (Sports Committee)
Prof. Nabin K. Sahu, Co-convener (Cultural Committee)
Prof. Jaideep Mulherkar, Convener (Synapse Committee)

**International Student Cell**
Prof. Yash Vasavada, Convener
Prof. Suman K Mitra, Dean (Academic Programs), Member (ex-officio)
Shri Soman Nair, Executive Registrar, Member (ex-officio)
Prof. V Sunitha, Convener (UG), Member (ex-officio)

**Rural Internship Committee**
Prof. Alka Parikh, Convener
Prof. Rahul Muthu, Member
Prof. Hernant Patil, Member

**NIRF Committee**
Prof. Bhaskar Chaudhury, Convener
Shri Jalpesh Pandya, Assistant Registrar, Member
Mr Prasanna Kumar, Assistant Librarian, Member
Mr Shashikumara AA, Assistant Librarian, Member

**NIRF Sub-Committee**
Prof. Suman K Mitra, Dean (Academic Programs), Convener
Prof. Sanjeev Gupta, Dean (R&D), Member (ex-officio)
Prof. Ranendu Ghosh, Dean (Students), Member (ex-officio)
Shri Soman Nair, Executive Registrar, Member (ex-officio)

**Strategic Vision Committee**
Prof. Anish Mathuria, Convener
Prof. Suman Mitra, Member
Prof. Deepak Ghodgaonkar, Member
Prof. Madhumita Mazumdar, Member
Prof. Mukesh Tiwari, Member
Prof. Yash Vasavada, Member
Prof. Bharani Kollipara, Member
Prof. Sourish Dasgupta, Member

**BTP Coordinator**
Prof. Manoj K Raut

**Summer Internship Coordinator**
Prof. Nabin K. Sahu

**Director IQAC**
Prof. Anil K. Roy
THESES, PROJECTS AND REPORTS

PhD Theses
1. Ahuja, Priya, Design and implementation of low power processor design using RISC-V ISA; 57 p.; 2019. (Supervisor: Amit Bhatt)
2. Banik, Sanghamitra, Design of prominent floating point multiplier using single electron transistor operating at room temperature; 26 p.; 2019. (Supervisor: Rutu Parekh and Yash Agrawal)
4. Batada, Arlene, DCA : (Data capturing application); 23 p.; 2019. (Supervisor: Asim Banerjee)
5. Bharatbhai, Lad Pinal, Area efficient and high performance approximate multiplier design; 60 p.; 2019. (Supervisor: Yash Agrawal)
10. Doshi, Tirth, Placement system development; 18 p.; 2019. (Supervisor: Asim Banerjee)
15. Jivani, Foram, Identity verification in smart KYC; 17 p.; 2019. (Supervisor: Aditya Tatu)
16. Kakran, Bhoomiti, Experiment based approach to understand delay tolerant network; 38 p.; 2019. (Supervisor: P. S. Kalyan Sasidhar)
17. Kotadia, Dhrumil, Cattle health monitoring using an IoT enabled impact sensing device; 17 p.; 2019. (Supervisor: Biswajit Mishra)
18. Kumar, Bitu, Reconfigurable time-to-digital converter based on pulse stretcher and gated delay line; 41 p.; 2019. (Supervisor: Biswajit Mishra)
22. Malaviya, Subhram M., Defending machine learning models against adversarial attacks using GANs; 43 p.; 2019. (Supervisor: Yash VasaVada)
23. Mehta, Archan, Image question and answering; 50 p.; 2019. (Supervisor: Manish Khare)
25. Nandani, Mitali, Sensor based approach for early disease detection in plants; 52 p.; 2019. (Supervisor: P. S. Kalyan Sasidhar and Vinay Palaparthy)
27. Panchal, Karishma, Modeling and comparative analysis of Si-MOSFET and GaAs FETs for high speed devices; 54 p.; 2019. (Supervisor: Yash Agrawal and Rutu Parekh)
30. Patel, Ketul, Design of low power interrupt driven RISC-V instruction set processor for embedded systems; 24 p.; 2019. (Supervisor: Amit Bhatt)
31. Patel, Maitri, Quantification of mineral end-members in lunar spectra through deep learning; 45 p.; 2019. (Supervisor: Suman K. Mitra and Aditya Kumar Dagar)
32. Patel, Venus, Plant disease detection using image processing and machine learning; 45 p.; 2019. (Supervisor: Manish Khare)
33. Prajapati, Pratik Kamlesh, Optical character recognition (OCR) feature extraction and classification; 47 p.; 2019. (Supervisor: Manjunath V. Joshi)
34. Pulawwala, Tasneem, Printed gujarati word-matching; 19 p.; 2019. (Supervisor: Suman K Mitra)
35. Rabadiya, Vidhi, Tyre pressure monitoring system; 53 p.; 2019. (Supervisor: Aditya Tatu)
37. Sengar, Udit Pratap Singh, Cost per scan (CPS); 8 p.; 2019. (Supervisor: Aditya Tatu and Akash Deep Verma)
40. Shah, Jainam, Placement system development; 48 p.; 2019. (Supervisor: Asim Banerjee)
41. Shah, Ketul Tejas, Segmentation and classification: optical character recognition algorithms to enhance the accuracy; 19 p.; 2019. (Supervisor: Manjunath V. Joshi)
42. Shah, Rajat Jatinbhai, Hotel management system; xiv, 186 p.; 2019. (Supervisor: Asim Banerjee)
43. Shah, Urmi, Emerging On-Chip interconnects for futuristic integrated circuit design; 36 p.; 2019. (Supervisor: Yash Agrawal and Rutu Parekh)
44. Shailja, Maniar, Emotion detection through smartphone typing; iv, 39 p.; 2019. (Supervisor: P. S. Kalyan Sasidhar)
45. Sharma, Ankur, Design of prominent single precision 32-bit floating-point adder using single electron transistor operating at room temperature; 35 p.; 2019. (Supervisor: Rutu Parekh)
46. Sharma, Chinmay, Physical design implementation of “ARP Block-4” module at 28nm “CHIPTOP” module at 90nm; 59 p.; 2019. (Supervisor: Aditya Tatu)
47. Shaw, Grishma, Image captioning and neural architecture search using reinforcement learning; xvii, 117 p.; 2019. (Supervisor: M.V. Joshi)
48. Shingala, Mitalee, Monkey detection using deep learning; 19 p.; 2019. (Supervisor: Pankaj Kumar)
49. Singh, Pranav, Design and implementation of low power interrupt-driven processor using RISC-V ISA; 43 p.; 2019. (Supervisor: Amit Bhatt)
50. Somaiya, Isha Nalinbhai, Full chip interface timing, pipeline planning and rapid floorplanning; 48 p.; 2019. (Supervisor: Yash Agrawal)
53. Teja, LT CDR NK., Smart soldier system incorporating embedded electronics; vi, 48 p.; 2019. (Supervisor: Rutu Parekh and Yash Agrawal)


55. Thakrar, Akash, Chatbot platform; 25 p.; 2019. (Supervisor: Saurabh Tiwari)

56. Trivedi, Rachesh, Design of prominent time to time digital (TDC) converter using single electron transistor operating at room temperature; 82 p.; 2019. (Supervisor: Rutu Parekh and Yash Agrawal)


58. Uphad, Aishwarya Dinkar, Antenna design and forward problem solution for brain stroke detection using microwave imaging; vi, 18 p.; 2019. (Supervisor: Deepak Ghodgaonkar)

59. Vora, Yash, ECG-PPG device for real time detection of various cardiovascular diseases; 51 p.; 2019. (Supervisor: Biswajit Mishra)

M.Des Project Reports


2. Agnihotri, Anupriya, Chutkis (Jani kala ke anjaane karigar ); vi, 31 p.; 2019. (Supervisor: Madhumita Mazumdar)


5. Shah, Dishant, Beaches of Mumbai; 33 p.; 2019. (Supervisor: Binita Desai)

6. Sinwal, Shweta, Alzheimer’s awareness and care; v, 36 p.; 2019. (Supervisor: Madhumita Mazumdar and Binita Desai)

7. Yadav, Vikas, जानने का हक- Graphic novel; 49 p.; 2019. (Supervisor: Binita Desai and Madhumita Mazumdar)
## FACULTY WITH AREAS OF INTEREST

### Regular Faculty

<table>
<thead>
<tr>
<th>Name of the Faculty</th>
<th>Areas of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD (Engineering)</td>
<td>IIT Bombay</td>
</tr>
<tr>
<td><strong>Agrawal, Sarita</strong></td>
<td>Wireless Sensor Network Security</td>
</tr>
<tr>
<td>PhD (Wireless Sensor Network)</td>
<td>DA-IICT, Gandhinagar</td>
</tr>
<tr>
<td><strong>Agrawal, Yash</strong></td>
<td>Design, modeling and simulation of high-performance VLSI interconnects, Nanotechnology</td>
</tr>
<tr>
<td>PhD (Electronics &amp; Communication Engineering)</td>
<td>NIT Hamirpur, Himachal Pradesh</td>
</tr>
<tr>
<td><strong>Ahlad Kumar</strong></td>
<td>Image Processing, CMOS Analog Design and Deep Learning</td>
</tr>
<tr>
<td>PhD (Electrical Engineering)</td>
<td>University of Malaya, Malaysia</td>
</tr>
<tr>
<td><strong>Banerjee, Asim</strong></td>
<td>Pattern Recognition, Medical Imaging, Image Processing, Digital Signal Processing, Speech Coding, Software Engineering, Software Quality Assurance and Project Management</td>
</tr>
<tr>
<td>PhD (Electrical Engineering)</td>
<td>IIT Bombay</td>
</tr>
<tr>
<td><strong>Bhateja, Puneet</strong></td>
<td>Formal Methods used for Testing and Verification</td>
</tr>
<tr>
<td>PhD (Computer Science)</td>
<td>Chennai Mathematical Institute, Tamil Nadu</td>
</tr>
<tr>
<td><strong>Bhatt, Amit</strong></td>
<td>Multicore Computer Architecture and Parallel Programming, Low Power Methodology in Digital design</td>
</tr>
<tr>
<td>PhD (Electrical Engineering)</td>
<td>North Carolina State University, USA</td>
</tr>
<tr>
<td><strong>Bhire, Shruti</strong></td>
<td>Biometrics, Pattern Recognition, Image Processing</td>
</tr>
<tr>
<td>PhD (Computer Science and Engineering)</td>
<td>IIT Indore</td>
</tr>
<tr>
<td><strong>Bhise, Minal</strong></td>
<td>Semantic Web, Distributed Databases, Software System Analysis and Design</td>
</tr>
<tr>
<td>PhD (Computer Science)</td>
<td>BITS Pilani</td>
</tr>
<tr>
<td><strong>Chaudhury, Bhaskar</strong></td>
<td>Computational Science, High-Performance Computing, Computational Physics, Modeling and Simulation of Plasmas, Computational Electromagnetics, Parallel Programming, GPU Computing, Plasma Electronics</td>
</tr>
<tr>
<td>PhD (Physics)</td>
<td>Institute for Plasma Research, Ahmedabad</td>
</tr>
<tr>
<td><strong>Das, ManikLal</strong></td>
<td>Information Security, Cryptography, System Design and Analysis</td>
</tr>
<tr>
<td>PhD (Information Technology)</td>
<td>IIT Bombay</td>
</tr>
<tr>
<td><strong>Das, Rajib Lochan</strong></td>
<td>Adaptive Signal Processing, Compressive Sensing, Image Processing</td>
</tr>
<tr>
<td>PhD (Adaptive Signal Processing)</td>
<td>IIT Kharagpur</td>
</tr>
<tr>
<td><strong>Dasgupta, Sourish</strong></td>
<td>Distributed Multi-Agent System, Service Oriented Architecture, Semantic Web, Artificial Intelligence</td>
</tr>
<tr>
<td>PhD (Computer Science)</td>
<td>University of Missouri-Kansas City, USA</td>
</tr>
<tr>
<td><strong>Desai, Binita</strong></td>
<td>Animation, Communication Design and Multimedia</td>
</tr>
<tr>
<td>PG Diploma (Animation)</td>
<td>National Institute of Design, Ahmedabad</td>
</tr>
<tr>
<td>Name</td>
<td>Degree and Field</td>
</tr>
<tr>
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<tr>
<td>Dutta, Gautam</td>
<td>PhD (Physics)</td>
</tr>
<tr>
<td>Garg, Gagan</td>
<td>PhD (Computer Science and Automation)</td>
</tr>
<tr>
<td>Garg, Shweta</td>
<td>PhD (English)</td>
</tr>
<tr>
<td>Ghodgaonkar, Deepak</td>
<td>PhD (Electrical Engineering)</td>
</tr>
<tr>
<td>Ghosh, Ranendu</td>
<td>PhD (Soil science &amp; Agricultural Chemistry)</td>
</tr>
<tr>
<td>Gohel, Bakul</td>
<td>PhD (Bio and Brain Engineering)</td>
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<tr>
<td>Gupta, Manish K</td>
<td>PhD (Mathematics)</td>
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<td>Gupta, Sanjeev</td>
<td>PhD (Communication Engineering)</td>
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<tr>
<td>Jat, Pokhar Mal</td>
<td>PhD (Computer Science and Engineering)</td>
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<td>Jindal, Abhishek</td>
<td>PhD (Wireless Communications)</td>
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<tr>
<td>Jotwani, Naresh</td>
<td>PhD (Computer Science)</td>
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<tr>
<td>Khare, Manish</td>
<td>PhD (Computer Science)</td>
</tr>
<tr>
<td>Name</td>
<td>Field of Study</td>
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<tr>
<td>Kollipara, Bharani</td>
<td>PhD (English Literature)</td>
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<tr>
<td>Koley, Santanu</td>
<td>PhD (Mathematics)</td>
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<tr>
<td>Maiti, Tapas Kumar</td>
<td>PhD (Electronics &amp; Telecommunication Engineering)</td>
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<tr>
<td>Majumder, Prasenjit</td>
<td>PhD (Computer Science)</td>
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<tr>
<td>Mandal, Srimanta</td>
<td>PhD (Computing and Electrical Engineering)</td>
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<tr>
<td>Mankodi, Amit</td>
<td>MS (Computer Science)</td>
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<tr>
<td>Mathuria, Anish</td>
<td>PhD (Computer Science)</td>
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<tr>
<td>Mazumdar, Madhumita</td>
<td>PhD (Modern History)</td>
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<tr>
<td>Mitharwal, Rajendra</td>
<td>PhD (Engineering Science)</td>
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<tr>
<td>Mitra, Suman Kumar</td>
<td>PhD (Computer Science)</td>
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<tr>
<td>Mulherkar, Jaideep</td>
<td>PhD (Mathematics)</td>
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<tr>
<td>Muthu, Rahul</td>
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<tr>
<td>Pandit, Supantha</td>
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<td>Pandit, Supantha</td>
<td>PhD (Computer Science)</td>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>Pandya, Vishvajit</td>
<td>PhD (Anthropology)</td>
</tr>
<tr>
<td>Parikh, Alka</td>
<td>PhD (Agriculture and Allied Economics)</td>
</tr>
<tr>
<td>Parekh, Rutu</td>
<td>PhD (Electrical Engineering)</td>
</tr>
<tr>
<td>Patil, Hemant</td>
<td>PhD (Signal Processing)</td>
</tr>
<tr>
<td>Raut, Manoj Kumar</td>
<td>PhD (Mathematics)</td>
</tr>
<tr>
<td>Ray, Arnab Kumar</td>
<td>PhD (Physics)</td>
</tr>
<tr>
<td>Roy, Anil</td>
<td>PhD (Physics)</td>
</tr>
<tr>
<td>Sahu, Nabin Kumar</td>
<td>PhD (Mathematics)</td>
</tr>
<tr>
<td>Sasidhar, P S Kalyan</td>
<td>PhD (Computer Science and Engineering)</td>
</tr>
<tr>
<td>Srivastava, Sanjay</td>
<td>PhD (Physics)</td>
</tr>
<tr>
<td>Suniltha, V</td>
<td>PhD (Mathematics)</td>
</tr>
<tr>
<td>Tatu, Aditya</td>
<td>PhD (Image Analysis)</td>
</tr>
<tr>
<td>Name of the Faculty</td>
<td>Areas of Interest</td>
</tr>
<tr>
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</tr>
<tr>
<td>Tiwari, Mukesh</td>
<td>Statistical Physics, Non-Linear Dynamics, Quantum Transport, Surface Science</td>
</tr>
</tbody>
</table>

### Adjunct Chair Faculty

<table>
<thead>
<tr>
<th>Name of the Faculty</th>
<th>Areas of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Levin, David</td>
<td>Mathematics, Probability Theory and its Applications</td>
</tr>
<tr>
<td>Pasi, Gabriella</td>
<td>Data Science, Fuzzy Logic, Information Retrieval, and Information Filtering</td>
</tr>
<tr>
<td>Fujisawa, Hiromichi</td>
<td>Pattern Recognition, Integrated Document Management System</td>
</tr>
<tr>
<td>Belkin, Nicholas</td>
<td>Human-centered Information Retrieval and Development of the Cognitive viewpoint in Information Science</td>
</tr>
<tr>
<td>Thomas Mandl</td>
<td>Information Management</td>
</tr>
</tbody>
</table>

### Visiting Faculty

<table>
<thead>
<tr>
<th>Name of the Faculty</th>
<th>Areas of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banerjee, Nandini</td>
<td>Economics and General Management</td>
</tr>
<tr>
<td>Dasgupta, Kuntala</td>
<td>Rabindra Sangeet, North Indian, Classical, India Film Music and History.</td>
</tr>
<tr>
<td>Desai, Nikita</td>
<td>Design, Culture, Conversation and Display</td>
</tr>
<tr>
<td>Name</td>
<td>Qualification</td>
</tr>
<tr>
<td>---------------------------</td>
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</tr>
<tr>
<td>Ganesh Devy</td>
<td>PhD (English)</td>
</tr>
<tr>
<td></td>
<td>Shivaji University, Kolhapur, Maharashtra</td>
</tr>
<tr>
<td>Duttagupta, Anirban</td>
<td>Graduate (Visual Communication Design)</td>
</tr>
<tr>
<td></td>
<td>NID, Ahmedabad</td>
</tr>
<tr>
<td>Lalchandani, Jay Prakash</td>
<td>PhD (Computer Science &amp; Engineering)</td>
</tr>
<tr>
<td></td>
<td>IIT Kharagpur</td>
</tr>
<tr>
<td>Nagchoudhuri, Dipankar</td>
<td>PhD (Electrical Engineering)</td>
</tr>
<tr>
<td></td>
<td>Michigan State University, USA</td>
</tr>
<tr>
<td>Pal, Ajit</td>
<td>PhD (Computer Science &amp; Electronics)</td>
</tr>
<tr>
<td></td>
<td>Calcutta University, West Bengal</td>
</tr>
<tr>
<td></td>
<td>(Animation Film),</td>
</tr>
<tr>
<td></td>
<td>National Institute of Design, Ahmedabad</td>
</tr>
<tr>
<td>Rangwala, Tanvi</td>
<td>MS (Computer Science)</td>
</tr>
<tr>
<td></td>
<td>University of Southern California, USA</td>
</tr>
<tr>
<td>Sarkar, Aditi Nath</td>
<td>MA (English)</td>
</tr>
<tr>
<td></td>
<td>Calcutta University, Kolkata</td>
</tr>
<tr>
<td>Shaikh, Jasmine</td>
<td>MPhil</td>
</tr>
<tr>
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<td>Gujarat University, Ahmedabad</td>
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<tr>
<td>Sisodia, Diksha</td>
<td>PhD (Management)</td>
</tr>
<tr>
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<td>University of Connecticut, USA</td>
</tr>
<tr>
<td>Verma, Grishma</td>
<td>Post Graduate (Animation Film Design)</td>
</tr>
<tr>
<td></td>
<td>NID, Ahmedabad</td>
</tr>
</tbody>
</table>
OFFICERS AND STAFF

Registrar
Soman Nair, Executive Registrar

Academic Programs
Jigar P Yagnik, Deputy Registrar (Academic)
Jalpesh Pandya, Assistant Registrar (Academic)
Dinesh Prajapati, Senior Programmer
Jainik Patel, Academic Assistant
Nandini Banerjee, Counselor
Nitu Singh Bhadauria, Counselor

Administration & HR
Hasendrasinh Jhala, Head - HR & Administration
Rajesh V Patel, Estate Engineer
Sudhir Dave, Commercial Officer
Bhavesh Shah, Senior Stores Assistant
Kiritkumar Pandya, Assistant Administrative Officer
Gyanesh Pandya, Senior HR Assistant
Niketa P Raval, Receptionist-Cum-Office Assistant
Keshurbhai M Zala, General Assistant
Bahadursinh M Veghela, Driver

Accounts
Geeta Mehta, Chief Accounts Officer
Santosh Pandit, Assistant Accounts Officer
Alpesh Chauhan, Accounts Assistant

Director/Dean/Register/Faculty Offices
Venugopal PR, Executive Secretary to Director
Abhilash Bhaskaran, Senior Secretary to Executive Registrar
Satyabir Singh, Senior Secretary to Dean (AP) & Dean (R&D)
Pankit Gandhi, Secretary Faculty Block 1
Deepa Poduval, Secretary Faculty Block 2
Geeta S Nair, Secretary Faculty Block 4

Placement
Sneha Thakker, Manager-Placement
Anuradha Srivastava, Secretary

CEP and Anchor Institute Programs
Parth Vayeda, CEP Officer
Shreejesh Kumar-Secretary

Resources Centre (Library)
Manish Mankad, Librarian
Prasanna Kumar Muduli, Assistant Librarian
Shashikumara A A, Assistant Librarian
Madesh Gowda T.M, Library Trainee
Abid Fakhre Alam, Library Trainee
Pratibha Kumari, Library Trainee
M D Tariqul Islam, Library Trainee
Manish Goswami, Library Attendant
Mukesh Shrimali, Library Attendant

Computer Systems
Nimesh B Patel, Manager (IT & Systems)
Prabhunath Sharma, Senior Design & Systems Assistant
Darshan Prajapati, Hardware & Network Engineer
Priyank Santola, Hardware & Network Engineer

Laboratory
Rajendra Shah, Laboratory Superintendent
Ramesh Prajapati, Deputy Laboratory Superintendent
Abhishek B Jani, Assistant Laboratory Superintendent
Sanjay Bariya, Senior Laboratory Assistant
Krunal G Patel, Senior Laboratory Assistant
Bhargav Patel, Laboratory Assistant
Naresh Patel, Laboratory Assistant
Dharmik Mehta, Laboratory Assistant

Sports
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