

Ahmedabad  
University

10 YEARS  
2009-2019



Ahmedabad University

To foster continuous progress of self and society

# ANNUAL REPORT

2018 - 2019



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**Ahmedabad University** is a liberal arts driven research university. It is dedicated to rigorous academic pursuit with a focus on building inquiry as a value through interdisciplinary learning. We prepare students to think deeply and creatively across fields, and emerge as independent thinkers and compassionate leaders who can innovatively engage with the complex challenges of our society. Our research and teaching spans humanities and languages, social sciences, mathematical and physical sciences, biological and life sciences, performing and visual arts, engineering, and management.

The University was established in 2009 by the Ahmedabad Education Society to reimagine higher education and to build the foundations of liberal education and research for benefit of society.

An Ahmedabad University education is premised on three unique characteristics: interdisciplinarity, experiential learning, and research thinking. Instead of the traditional lecture-based method, our emphasis is on teaching students to think for themselves - learning to link theoretical developments to living contexts and bringing one's learning to bear on the world at large. Our system of education is broad and deep - flexible enough to help a young student discover her own passion and areas of interest yet deep to build enduring skills and knowledge. The University's signature Foundation Programme builds the fundamentals of a holistic application of theoretical learning. Our graduate programmes and particularly the doctoral programmes are at the frontiers of knowledge and their application.

At Ahmedabad, you learn from the best of faculty who have been trained at some of the best universities globally and in some of the more cutting edge laboratories. Our faculty research is published at high quality international outlets. One third of our students go for higher education, one third go back to family business or start a new enterprise and the remaining find jobs in Indian and global corporations.

Located in the centre of the city amidst a fast growing urban forest, the university's campus comprises heritage and contemporary buildings designed by some of the most exciting global architects. They house the university's four Schools and four Centers.

The **Amrut Mody School of Management** has built the country's most advanced undergraduate and MBA programmes with strong grounding in liberal arts and industry consulting. The **School of Arts and Sciences** aims to create an intellectual

environment with a difference and be at the frontiers of cutting-edge global research across the natural, physical and social sciences, humanities, and performing and visual arts. It offers interdisciplinary programmes at undergraduate and graduate levels. The **School of Engineering and Applied Science** is one of the most unique engineering schools in India with an engineering foundation spanning several disciplines (based on the premise that all engineers must know many disciplines to be able to solve complex problems) and a unique hands-on experiential learning environment (i.e., project based learning and building of products) that is strongly centered on design.

The **Centre for Learning Futures** focuses on innovation in teaching and learning and runs the reading and writing programme of the University. The **Centre for Heritage Management** is one of its kind in India. It focuses on the management of tangible, and intangible heritage as well as on art history and aesthetics. The **Global Centre for Environment and Energy** addresses research at the interfaces of three vital global challenges - the environment, energy and sustainability by interlinking Policy, Entrepreneurship, and Science and Technology. **VentureStudio** is the University's incubator that helps students start an innovation driven enterprise. It also offers end to end support to startups, including assistance with funding.

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# YEAR AT A GLANCE

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## ■ Faculty Research

The University has always laid emphasis on excellence in research and its impact. In the academic year 2018 (July 2018 to June 2019), faculty at the University won 6 new competitive research grants worth INR 2,53,62,809. They published 6 Books, 26 chapters in books, 94 journal articles, and 29 articles in refereed conference proceedings.

## ■ New Leadership

**Professor Saptam Patel** was appointed as the Assistant Dean of Undergraduate College in February 2019. To strengthen the Office of the Dean of Students (ODS) further, **Ms Kalpana Pareekh** who was in-charge of Student Support, Engagement, and Tutelage (SSETU) was promoted as Associate Dean of Students (Wellness) in March 2019.

## ■ New Identity

Ahmedabad University unveiled its new identity on the 10th Foundation Day on 23<sup>rd</sup> February 2019- a new logo that embodies our roots in universal inquiry that empowers open and unbounded thought leading humanity to prosperity, and our ethos of being informed and guided by deep scholarship and multiple perspectives that enhance our vision.

The logo is a contemporary mnemonic representing a rich heritage of the city of Ahmedabad as its inspiration. The mnemonic is a stylised representation of an integral icon of the city - the stepwell, in the form of a minimalistic yet powerful graphic illustration.



**Ahmedabad  
University**

At the core of the structure is the self, which must grow with the aim of transforming society for the better, thus evolving itself. Historically, a stepwell was constructed to sit deep in the earth which speaks to the University's focus on enquiry for in depth understanding. The channels and doors represent the openness ingrained in the holistic philosophy of education that Ahmedabad University embodies. From encouraging the spirit of disciplinary research to facilitating intersections that enable progress and prosperity.

## ■ Outreach

The Office of Admissions and Financial Aid saw new leadership with **Ms Hansa Sachdeva** and **Mr Sumit Gupta** taking charge of the Undergraduate and Graduate Admissions respectively. For the first time, the University developed an extensive outreach programme that included participation in school fairs in India, Bhutan, Nepal and Middle East; visits to Schools and Colleges across the country; and engagement with counsellors at Schools and College administrators to inform them about education at the University. Digital and social media were important vehicles of admissions outreach.

## Admissions and Financial Aid

As always, the students of the 2018 and 2019 Batches were admitted on a need-blind basis. The University placed a preference over students who have enthusiasm for an intellectual quest and multi-dimensional personality with interest in extracurricular activities and sports. Over 3190 applications were reviewed holistically and 1765 personal interactions were conducted by panels comprising the faculty and staff of the University in 2018 and 2019 figures for applications reviewed holistically and personal interactions were 4067 and 2331, respectively. For the deserving students from economically weaker sections of the society, Financial Aid in the form of partial waiver, and at times, even complete waiver of tuition fees was provided to students in 2018. Merit Scholarships in recognition of academic achievements were also given to students. The University also had tie-ups with Banks to enable Education Loans for its students.

**2018** Financial Aid: INR 1,76,00,000

## Graduating Students

A total of 1105 students graduated from 17 Programmes offered by four Schools and one Centre at the Ahmedabad University. Out of these, 2 were awarded PhD degrees, 206 graduated with a Master's degrees and 897 were awarded Bachelor's degrees.

Programme/ Degree	Graduating Students
Bachelor of Business Administration	209
Bachelor of Business Administration (Honours)	12
Bachelor of Commerce	366
Integrated Master of Business Administration	53
Master of Business Administration	65
Master of Management Studies in Heritage Management	6
Bachelor of Science in Life Sciences (Honours)	15
Integrated Master of Science in Life Sciences	49
Bachelor of Computer Applications	49
Integrated Master of Computer Applications	28
Master of Computer Applications	1
Bachelor of Technology in Chemical Engineering	57
Bachelor of Technology in Information and Communication Technology	120
Bachelor of Technology in Mechanical Engineering	69
Master of Technology in Computer Science and Engineering	4
Doctor of Philosophy in Engineering	1
Doctor of Philosophy in Life Sciences	1
<b>Total</b>	<b>1105</b>



## VICE CHANCELLOR'S MESSAGE

On behalf of the Ahmedabad University community, I am happy to present the Annual Report of the University for the academic year 2018-19. This was a year when the entire University came together – the schools, centers, and programmes – to deliver in an integrative manner our new vision of liberal education.

The University worked to design a new undergraduate curriculum that is premised on interdisciplinarity, practice orientation, and research thinking. This new curriculum is rigorous in its intellectual content and impactful in its application orientation. We have now built a learning environment that emphasizes ways of thinking, ways of becoming, and ways of doing as integral philosophy of an Ahmedabad education. The new curriculum and our unique pedagogy will differentiate an Ahmedabad graduate. The university also took the decision to start liberal arts programme from the academic year 2019.

Towards becoming a research university, I am happy to inform that our faculty won significant competitive grants, published in reputed journals and were invited at serious places to deliver invited talks. We took another step forward in consolidating the administration of graduate education. The University established The Graduate School, a non-teaching School, to coordinate the policies of all graduate programmes (Masters and Doctoral programmes), provide oversight on quality, and to become the administrative home of doctoral students (the academic home are the respective Schools). The Graduate School manages the entire life cycle process of a graduate student, acts as a coordinating body for interdisciplinary graduate education, ensure that highest standards and quality are maintained in all programmes across the university and that the programmes are continuously upgraded, ensure that the programmes embody the most rigorous intellectual content and thinking and they are cognizant of its value in the employment market and to the society.

Three interesting initiatives deserve mention. One, the School of Arts and Sciences initiated a seminar series, Intersections, that is aimed creating conversations that build an integrative understanding of issues across disciplines. This would help promote interdisciplinary teaching and research opportunities across the University in the long run. Two, the Amrut Mody School of Management redesigned their MBA curriculum and introduced a mandatory two year long hands-on consulting and implementation project

called Route Camp. Route Camp brings industry and society problems into the classroom over an extended period and is aimed at enhancing effective learning and employability. The School of Engineering and Applied Science crafted a new “core curriculum” that integrates all disciplines of engineering into a common foundation. The design is premised on the fact that solutions to complex challenges require multiple disciplinary knowledge.

Our campus construction is now in full swing and we launched four major projects – the redesign of the central campus and the main entrance gate, the construction of the new arts & sciences as well as the student activity centre buildings, and the refurbishment of the new management building. These will bring the campus together in near future.

The University is fast becoming one of the most sought after institutions in the country by prospective faculty candidates and we hope to build on this dynamism in the year ahead to consolidate our position as a very impactful academic centre.

**Pankaj Chandra**  
**Vice Chancellor**





# AMRUT MODY SCHOOL OF MANAGEMENT

The Amrut Mody School of Management (AMSOM) offers wide-ranging management education through undergraduate, graduate and doctoral programmes. It also offers short-term certificate programmes for working professionals and other practitioners. The School draws from various Schools and Centers of the University to offer highly unique programmes that incorporate liberal arts and technology inputs to management education.

## Overview

The year 2018-2019 has been a year of new beginnings across AMSOM for both students as well as faculty members. The school welcomed new faculty members - Ishita Tripathi, Mahendra Singh Rao, Ravi Miglani, Samvet Kuril, Swati Ghulyani and Vandana Chak. They brought with them rich experiences from the world of industry and some of the best educational institutions of the country and the world.

A new Executive Master's programme in Business Administration was launched in collaboration with University of California San Diego's Rady School of Management for working professionals in the pharmaceutical sector. The Global Executive MBA in Pharmaceutical Management is our strategic effort to provide cutting edge life-long learning. This two years long programme is noteworthy in its rigor and professional outlook. It is built on the idea of intense interactions among the global faculty members and experienced professionals from the pharmaceutical and healthcare professions.

The School also launched "The Leadership Series" this year. It is a platform for the students to interact with and learn from accomplished leaders of India, working across different fields.

It has also been the year of student achievements at national and international levels. A research paper entitled 'Hidden Culture of Entrepreneurial Communities of Indian Cities: A Case study of Ahmedabad', written by Ritika Laddha an undergraduate student in the BBA programme was accepted into the plenary session of the 'Emerging Economies in Transition Conference' at Krakow, Poland. Zahraa Akkiswala, a student of Ahmedabad University represented India at the Study of the U.S. Institutes for Women Leadership Programme (a student exchange programme for undergraduate women students from across the globe).

## Programmes

- Doctoral Programme in Management
- Master of Business Administration
- Global Executive MBA Programme in Pharmaceutical Management
- Integrated Master of Business Administration
- Master of Arts in Economics (offered jointly with the School of Arts and Sciences)
- Bachelor of Business Administration
- Bachelor of Commerce
- Bachelor of Commerce (Professional)







## Student Activities and Achievements

**Arham Pincha**, of the Bachelor of Business Administration programme participated in the Youth Parliament of India 2018 at Karnavati University and was awarded as the Best Speaker award.

**Dhairya Shah**, of the Bachelor of Commerce programme, participated at the state level drama competition, Indian National Theatre, organised by Gujarat Samachar.

**Eshika Lohani**, of the Bachelor of Commerce programme secured an All India Ranking 1 in Operational Case Study Exam and an All India Rank 3 in Management Case Study Exam as well as in Advance Financial Reporting Exam conducted by Chartered Institute of Management Accountants (CIMA).

**Kausha Kotak, Priyanshi Kothari, Kajal Thakkar and Anisha Shah** of the Bachelor of Business Administration programme have been selected for the prestigious the 2019 Young Women in Investment initiative of CFA Institute. They are among the 100 women selected for internship and training across the nation.

**Milan Vekariya, Lehar Bhatia, Nikesh Kothari and Prerna Lachhwani** of the Bachelor of Business Administration and Integrated MBA programmes won the second best Business Plan Award in the Manitou Challenge at Rennes School of Business, France.

**Nikita Lalan** of the Integrated Master of Business Administration programme received the Data for Improved Governance Fellowship where students

aggregate and visualise public data in order to improve public policy and governance.

**Nikunj Meghani** of the Bachelor of Business Administration programme, was part of the Indian Speed Skating team and represented India in the World Skating Competition in Barcelona, Spain.

**Ritika Laddha** of the Integrated Master of Business Administration programme presented a paper, 'Hidden Culture of Entrepreneurial Communities of Indian Cities: A Case study of Ahmedabad,' during the plenary session of the 'Emerging Economies in Transition Conference' at Krakow, Poland.

**Shaqib Sheik and Garima Chandnani** of Integrated Master of Business Administration and Bachelor of Business Administration programmes secured 1st position in Mock Parliament, 2nd position in Case Analysis and Mock Stock in Cognosense 2019, a National Economic Festival at St. Xavier's College, Ahmedabad.

**Keshvi Nandu** of the Bachelor of Business Administration programme was a part of the programme Study of United States Institutes on Youth, Education and Closing the Skills Gaps at United States of America where they studied the history and future of work in the changing world.

**Zahraa Akkiswa** of the Bachelor of Commerce was a part of State funded programme on women's leadership at University of Kansas where she got to learn different aspects of leadership and how one can practise leadership in their own community by developing smart experiments.







## Events

### LEADERSHIP SERIES

**Dr C Rangarajan**, Distinguished University Professor, Ahmedabad University spoke on 'Economic Issues: Hopes and Concerns for 2019' on 16<sup>th</sup> January 2019.

**Maheshwar Peri**, Founder and CEO of Career360 spoke on 'Get noticed and Get placed' on 8<sup>th</sup> February, 2019.

**Mr Anang Lalbhai**, Chairman, Pelican Group, gave a talk on 'Leadership Insights' on 8<sup>th</sup> February, 2019.

**Mr Gurcharan Das**, the renowned author, commentator and a thought leader addressed the students on 'Making a Living Versus Making a Life', on 20<sup>th</sup> February 2019.

**Mr Dhawal Dalal**, Chief Investment Officer- Fixed Income at Edelweiss Asset Management Limited focused on the debt funding debacle of the company Infrastructure Leasing and Financial Services (IL&FS) and the lessons that can be learnt on 16<sup>th</sup> March 2019.

**Mr Pradeep Chona**, the former CEO of Havmor Icecreams talked about building the Havmor brand on 27<sup>th</sup> March 2019.

**Mr Rostow Ramanan**, CEO and Co-Founder of 'Mindtree, discussed how perseverance, work-life balance and a sense of self are important ingredients of professional success 29<sup>th</sup> March 2019.

**Mr R S Sodhi**, Managing Director and CEO of AMUL, shared his learning from his professional life at AMUL on 10<sup>th</sup> April 2019.

## Workshops

### Case Method of Teaching and Learning

A workshop for faculty members was conducted on teaching and learning through cases and also writing case studies on 5<sup>th</sup> January 2019 by Professor Jagdish N. Sheth of Emory University, USA.

### Digital Conclave 2019

A one day workshop on Digital World of Business: Triumphs and Tribulations was conducted for students across the University on 6<sup>th</sup> April 2019. The Conclave consisted of 8 speakers from across India who were experts in the field of digital marketing.

### People Analytics

A workshop was conducted by Sushanta Panda, Managing Director, Syum Technology Private Limited to give our students a hands-on exposure in the use of data analytics using tableau for HR.

### CONCOURSE

'Concourse,' the two day Management Festival was held on 19-20<sup>th</sup> January 2019. Teams from 11 universities and colleges participated in a range of activities like Business Quiz, Mock Stock, Business Plan etc. The theme for Concourse 2019 was 'Cultures and Workplaces' and every event focused on a different aspect of the theme like organisational culture, the importance of regional culture in an organisation, and the product/service tools that are inevitable for an efficient workplace.



## Guest Lectures

**Akash Loonia**, Associate Director at KPMG India (Accounting Advisory Services), "Financial Reporting, Analysis and Challenges for Companies," 9<sup>th</sup> June 2018

**Birju Mistry**, Lead HR Global (Emerging Markets, US, and Europe), Zydus Pharmaceuticals, "Strategic Choice of Selection Techniques," 3<sup>rd</sup> August 2018

**Mikul Patel**, IIM Ahmedabad, Deep Patel, co-founder of Interestship, Sneha Bhavsar, co-founder of O'Womana and Dr Srisundar Subramaniam, CEO of Venture Studio, "Struggles Faced at the Beginning and the Lessons Learned from it," 8<sup>th</sup> August 2018

**Dr Shashiranjana Yadav**, Vice-Chancellor, Indian Institute of Teacher Education, Gandhinagar, "Regaining the Lost Glory of Indian Education," 22<sup>nd</sup> August 2018

**Saurabh Bhatt**, Manager Business Consulting, Thomas Pvt. Ltd., "Employee Testing," 24<sup>th</sup> August 2018

**Manish Thakkar**, HR Head- Learning and Development, Adani Ports and Special Economic Zone Ltd., "Role of Behavioural Processes in Organisations," 6<sup>th</sup> September 2018

**Satish Lahare**, Strategic Consulting, CU Analytics, "Aligning HR Policies with the Strategy of the Organisation," 25<sup>th</sup> September 2018

**Hardik Dave**, GM-HR, Adani Port and Special Economic Zone Limited, "Work 3.0," 24<sup>th</sup> October 2018

**Satish Mehta**, Chief Operating Officer, Piramal Housing Finance, "Housing Finance and the Role of Credit Bureau," 27<sup>th</sup> October 2018

**Sushant Panda**, Managing Director, Syum Technology Pvt Ltd, "Theobald Software, Data Analytics," 27<sup>th</sup> October 2018

**Khushboo Kundalia**, CA, Director, Indirect Tax, BSR & Associates LLP, "GST and its Impact on Business," 30<sup>th</sup> October 2018

**Janki Mehta**, HR Manager, Beardo, "HR for Start-ups," 9<sup>th</sup> November 2018

**Mahesh Pandya**, Director, Paryavaran Mitra, "BRTS Ahmedabad: Issues and Challenges," 3<sup>rd</sup> November 2018

**Dr Vidyut Joshi**, Eminent Sociologist and Former Vice-Chancellor Bhavnagar University, "Narmada Rehabilitation Policy," 3<sup>rd</sup> January 2019.

**Vidyut Chavda**, Trade Category Manager (Hair Category), Hindustan Unilever Ltd., "How Brands and Categories Grow?" 17<sup>th</sup> January 2019

**Bhargav Trivedi**, Founder and Vice President, Big Media Solutions, "International Issues in HR," 8<sup>th</sup> January 2019

**Kavita Rajan**, Founder, HumanVedaa HR Solutions, "Determination of CTC and Tax Implications," 2<sup>nd</sup> February 2019

**Ankita Gangadwala**, Head HR, Elite Core "Recruiting Superkeepers," 7<sup>th</sup> February 2019

**Hitesh Sharma**, Senior Manager HR (International), INTAS, "Talent Planning" and "Compensation for International Assignments," 9<sup>th</sup> February 2019

**Love Tyagi**, Founder, Ahmedabad School of Digital Marketing, "Facebook as a Marketing Tool," 26<sup>th</sup> February 2019

**Dharmadeep Jadeja**, Head HR, Mobiquity, "Designing Pay Grade," 5<sup>th</sup> April 2019

**Alpa Bhatt**, Head HR, Task Consulting, "Behavioral Event Interviewing," 9<sup>th</sup> March 2019

**Sudhir Phagaut**, Trainer, SAS Database, "Neural Network through Orange," 09<sup>th</sup> March 2019

**Dr Sarvar V Sherry Chand**, Former Faculty and Head of the Department, St Xavier's College, Ahmedabad, "The Epistemological Implications of Virginia Woolf's Method in a Room of One's Own," 23<sup>rd</sup> March 2019

**Dr Meera Mehta**, Professor Emeritus CEPT University, "PPP in Sanitation - Case study of Maharashtra," 4<sup>th</sup> June 2019



## Research Seminars

**Professor Abrar Ali Saiyed**, Ahmedabad University, "The Internationalisation of New Ventures in an Emerging Economy: The Shifting Role of Industry Concentration," 4<sup>th</sup> April 2018

**Professors Vivek Bhatt and Shriram Kadiya**, Ahmedabad University, "Experimental Design for Assessment of Tourism TV Commercials – A case of BRICS India," 25<sup>th</sup> April 2018

**Prabhat Ranjan**, IIM Calcutta, "A New Algorithm for Student-Optimal Match: A Framework for Management Institution's Admission in India Development," 25<sup>th</sup> May 2018

**Chetan Chitre**, IIM Bangalore, "Impact of Use of Technology on Student Learning Outcomes –Evidence from a Large Scale Experiment in India," 3<sup>rd</sup> June 2018

**Professor Amol Agrawal**, Ahmedabad University, "What's Happening Between the Government and the RBI?" 12<sup>th</sup> June 2018

**Professor Francisco Figueira de Lemos**, Uppsala University, Sweden, "Internationalisation: Does Politics Matter?" 2<sup>nd</sup> August 2018

**Aditya Moses**, IIM Bangalore, "Institutional Logic Combinations and Organisational Performance: A study of Christian Mission Hospitals in India," 3<sup>rd</sup> August 2018

**Dr Ghanshyam Sharma**, Seton Hall University, USA, "Impact of Market Concentration on Effective Sales Tax Rate: Evidence from the Insurance Industry India," 22<sup>nd</sup> August 2018

**Dr Kanika Singh**, Ashoka University, "Heritage in Contemporary India: A Study of Sikh Museums," 7<sup>th</sup> September 2018

**Deeksha Kale**, Boston College, USA, "Could Directed Lending Programs Hurt Small Businesses? Evidence from India," 1<sup>st</sup> October 2018

**Dr C Rangarajan**, Distinguished Professor, Ahmedabad University, "Monetary Policy and the Transmission Mechanism," 4<sup>th</sup> October 2018

**Professor Vinodh Madhavan**, Institute for Financial Management and Research, Sri City, "Evolving Efficiency of Dually-Listed Indian Stocks: A Nonlinear Perspective," 22<sup>nd</sup> October 2018

**Dr Aditya Prakash Kanth**, Art Conservator, New Delhi, "Documentation of Painted Surfaces - with Unaided Eyes to Scientific Investigations," 25<sup>th</sup> October 2018

**Professor Chirag Trivedi**, Ahmedabad University, "The Class called Literary Precariat: The Question of Canon-Formation and Literary Elitism in Gujarati Literature," 4<sup>th</sup> November 2018

**Dr Santanu Ganguli**, Xavier Institute of Management, Bhubaneswar, "Negotiated Bank Finance Earning Quality: Indian Evidence," 14<sup>th</sup> November 2018

**Professor Pradeep Kumar Hota**, LM Thapar School of Management, Chandigarh, "Adopting Bricolage to Overcome Resource Constraints: the Case of Social Enterprises in Emerging Economy," 20<sup>th</sup> November 2018

**Dr Suraj Shekhar**, University of Cape Town, South Africa, "The Impact of a Spinoff on the Parent Firm: A Model of Double Adverse Selection with Correlated Types," 21<sup>st</sup> November 2018

**Professor Murali P**, IIM Bangalore, "Divergence and Convergence of Firm-level Best Practices: the Case of Bajaj and Hero-Honda in India's Two-wheeler Industry," 23<sup>rd</sup> November 2018

**Deepak Behera**, IIT Madras, "Prioritization of Government Expenditure on Health in India: A Fiscal Space Perspective," 27<sup>th</sup> November 2018

**Professor Aparajith Ramnath**, Ahmedabad University, "Ambiguous decolonisation: A Postcolonial Reading of the IHRM Strategy of the Burmah Oil Company," 28<sup>th</sup> November 2018

**Professor Sumit Mishra**, Institute for Financial Management and Research, Sri City, "Public Goods, and Nested Sub national Units: Diversity, Segregation, or Hierarchy?" 29<sup>th</sup> November 2018

**Professor Jinal Parikh**, Ahmedabad University, "A Comparative Analysis for Mapping Relative Position of Bank Brands: An Application of Attribute-based Perceptual Mapping Using Factor Analysis and Data Envelopment Analysis," 9<sup>th</sup> December 2018

**Dr Aaditya Dar**, George Washington University, "Parachuters vs. Climbers: Economic Consequences of Barriers to Political Entry in a Democracy," 15<sup>th</sup> January 2019

**Dr C Rangarajan**, Distinguished Professor, Ahmedabad University, "Economic Issues: Hope and Concerns for 2019," 16<sup>th</sup> January 2019

**Dr Rohit Chandra**, Kennedy School, Harvard University, "Adaptive State Capitalism in the Indian Coal Industry," 18<sup>th</sup> January 2019

**Professor Bijal Mehta**, Ahmedabad University, "Irritate Me and I'll Block You! – Consumer's Cognitive Process Leading to Ad Blockers," 30<sup>th</sup> January 2019

**Dr Pinaki Roy**, IIM Ahmedabad, "A lovable personality: The Effect of Brand Personality on Brand Love," 13<sup>th</sup> February 2019

**Ishita Tripathi**, Louisiana State University, USA,  
"Does Terrorism Influence Anti-Immigrant  
Sentiments?" 14<sup>th</sup> February 2019

**Professor Tana Trivedi**, Ahmedabad University,  
"Precarity and Resistance in Oceanic Literature,"  
20<sup>th</sup> February 2019

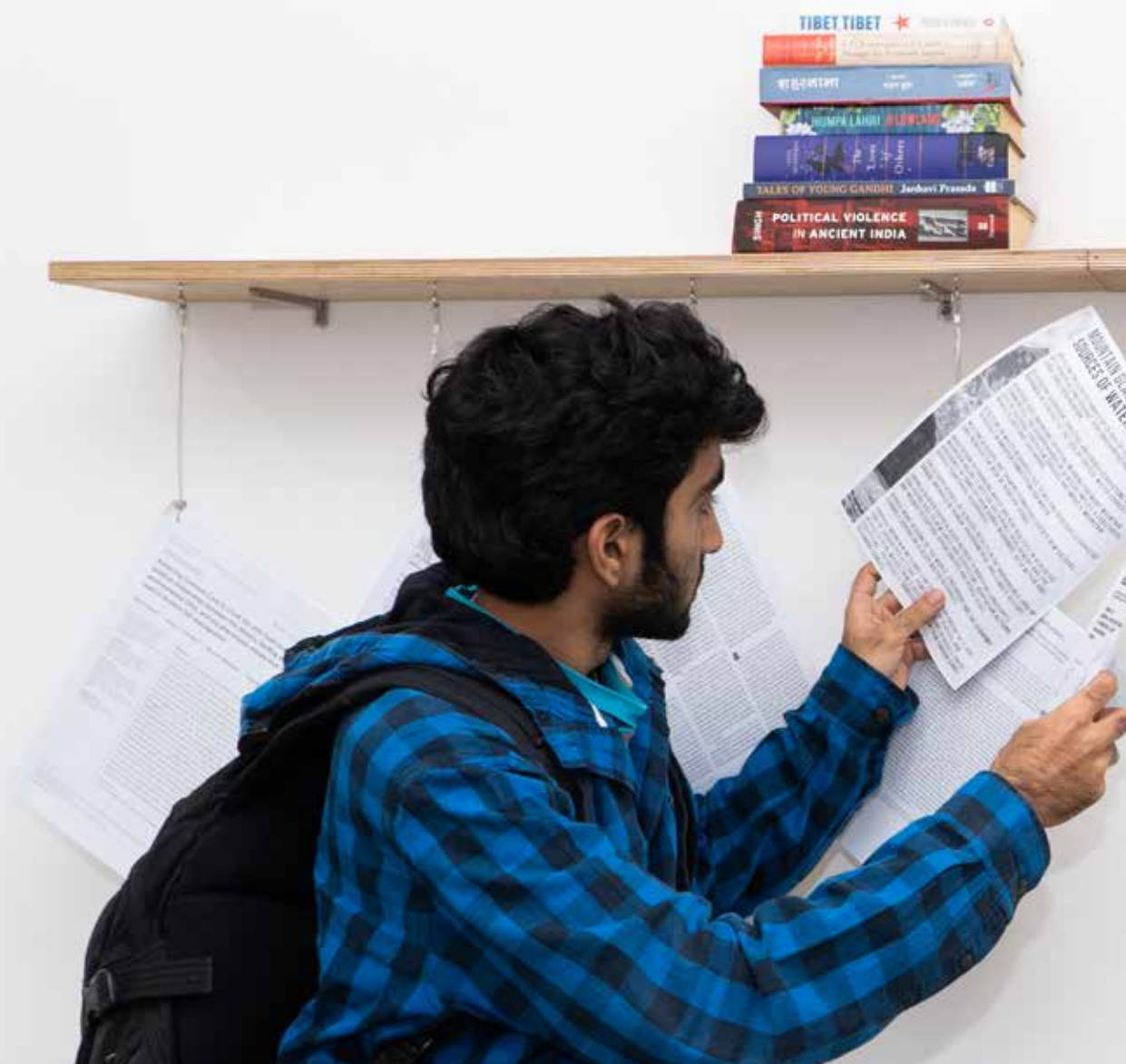
**Professor Jeemol Unni**, Ahmedabad University,  
"Low Return Entrepreneurship and Small Business:  
Do Behavioural Traits Matter?" 4<sup>th</sup> March 2019

**Professor Sujo Thomas**, Ahmedabad University,  
"Testing the Influence of Message Framing,  
Donation Magnitude and Product Category in a  
Cause-related Marketing Context," 4<sup>th</sup> March 2019

**Professor Ashay Kadam**, Institute of Rural  
Management, Anand, "Selected Problems in Credit  
Risk Measurement," 28<sup>th</sup> March 2019

**Professor Paragi Shah**, Ahmedabad University,  
"Role of Network Capabilities in Internationalization  
of New Venture in Emerging Economies: A  
Contingent Effect of Industry Concentration and  
Liberalization," 2<sup>nd</sup> June 2019

**Professor Payel Mukherjee**, Fellow, Centre  
for Learning Futures, "Unhomely Home: The  
Precariousness of Being, Belonging and Becoming,"  
2<sup>nd</sup> June 2019





# Grants

**Name:** Abrar Ali Saiyed

**Grant for:** Participation in Wharton Global Faculty Development Programme, University of Pennsylvania

**Grant Awarded by:** Wharton Global Initiatives, The Wharton School, University of Pennsylvania, USA

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**Name:** Abrar Ali Saiyed

**Grant for:** STRGlobal Representatives Post-Doctoral Workshop, Academy of Management.

**Grant Awarded by:** Strategy Division of the Academy of Management, USA

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**Name:** Abrar Ali Saiyed

**Grant for:** Travel Grant for participating in the Academy of International Business Conference: Annual Meeting, Minneapolis

**Grant Awarded by:** The Boeing Company

**Name:** Jeemol Unni

**Grant for:** Travel grant for paper presentation at Development Studies Associate Conference (DSA)

**Grant Awarded by:** University of Manchester, UK

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**Name:** Payel Mukherjee

**Grant for:** Travel grant to present a paper at University of British Columbia, Vancouver, B.C.

**Grant Awarded by:** University of Saskatchewan, Canada

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**Name:** Shilpa Bhat

**Grant for:** Visiting Fellowship at the Weston Library, Bodleian Libraries, Oxford University, 10 October 2019 to 10 December 2019.

**Grant Awarded by:** Bodleian Libraries, Oxford University, UK



# Research at the Amrut Mody School of Management

## BOOKS

- **Trivedi C. & Burke R. (2018).** Adivasi Nachshey Nahi. Ahmedabad: Joy Burke Foundation
- **Sharma E. (2018).** Strategic Human Resource Management and Development. India: Pearson Educations

## BOOK CHAPTERS

- **Chandra, P. (2018).** Questioning Academic Freedom. In Apoorvanand (Ed.) Academic Freedom in India, 128-135, Pune: Westland
- **Dugar, P. & Pandit, N. (2018).** Investment Trends in Venture Capital and Private Equity in India. In N.R. Bhanumurthy, Shriram Nerlekar, K, Shanmugan, Sandeep Hegde (Eds.) Advances in Finance & Applied Economics (213-235), Singapore: Springer
- **Mehta, B. (2018).** Perception Shapers and Drivers - Brand Amdavad. In Yatish Rajawat and Ami Fernandes (Eds.) Amdavad Book by Daily News and Analysis, Mumbai. Ahmedabad Edition November 2018 (94), Ahmedabad: Diligent Media Corporation Ltd.
- **Mehta, B. & Shah, P. (2019).** Social Self Efficacy and Digital Mediums - What Indian Women Entrepreneurs Say. In Crittenden V. (Ed.) Go-To-Market Strategies for Women Entrepreneurs (147- 155), England: Emerald Group Publishing
- **Saiyed, A. (2019).** Waqf and the economics and the politics of heritage management. In Jigna Desai and Iñigo Cornago (Eds.) Ahmedabad Cross Section (1-3), Ahmedabad: CEPT Press
- **Saxena S. (2019).** Family Roles Posing Challenges for Women Leaders in India. In Ghosh, R., & McLean, G. N. (Eds.) Indian Women in Leadership (13-29), Palgrave
- **Thomas, S. (2019).** Putting employees as the top priority in the context of human resources: a case of Taxiforsure acquisition by Ola. In P. Rijwani, S. Shome and D. Danak (Eds.) Business, Economy and Environment: Corporate Perspectives (94-112), Mumbai: Himalaya Publishing House
- **Trivedi, B. (2019).** Estimation of Parameters of Misclassified Size Biased Borel Tanner Distribution. In Arnab Kumar Laha (Ed.) Advances in Analytics and Applications (243-260), Singapore: Springer

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- **Bhat, S. (2019).** Hackeneying Hybridity? Fending Off 'Foreignness', Khoja Community and Hybridization in the Magic of Saida. Culture and Religion. 1-18, DOI:10.1080/14755610.2019.1571521
- **Dalal, K. & Thaker, N. (2019).** ESG and Corporate Financial Performance: A Panel Study of Indian Companies. The IUP Journal of Corporate Governance, 18 (1), 44-59
- **Dugar, P. (2019).** Venture Capital and Private Equity Financing - A Literature Review. Gap Gyan- An International Journal of Social Sciences, 1(2), 60-74
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- **Madhavan, V. & Ray, P. (2019).** Price and Volatility Linkages between Indian Stocks and their European GDRs. *Journal of Emerging Market Finance*, DOI: 10.1177/097265271984 6353
- **Madhavan, V. & Ray, P. (2018).** Evolving Efficiency of Dually-listed Indian Stocks: A Nonlinear Perspective. *Journal of Quantitative Economics*, 16 (1), 13-35
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- **Shah, Z. & Maisuria, M. (2018).** A study on Banking Services in Ahmedabad District: a perspective of Rural and Urban Consumer. *International Journal for Research in Engineering Application & Management*, 4 (3), 181 – 191
- **Singh, R., Bhullar, N. & Sankaran, K. (2019).** Leader-versus-member and fair-versus-biased categorisations as safeguards against negative effects of demographic diversity on group attraction. *IIMB Management Review*, 31, 7-19, DOI: 10.1016/j.iimb.2018.08.003
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- **Thomas, S. (2019).** Testing the Influence of Message Framing, Donation Magnitude and Product Category in a Cause Related Marketing Context. *Journal of Marketing Communication*, 11, 1-22
- **Thomas, S. (2019).** Online Grocery Retailing - Exploring Local Grocers Beliefs. *International Journal of Retail and Distribution Management*, 47 (2), 57-185
- **Thomas, S. (2019).** Cause-related Marketing Research (1988 – 2016): An Academic Review and Classification. *Journal of Nonprofit and Public Sector Marketing*, DOI: 10.1080/10495142.2019.1606757
- **Trivedi, T. (2019).** Precarity and Resistance in Oceanic Literature. *South Asian Review*, 39, 356-359
- **Trivedi, T., Kennedy, J. & N.B, A., (2019).** Peripatetic world of the Indo-Fijian diaspora in Brij V Lal’s *Mr Tulsi’s Store*. *GNOSIS*, 5 (2), 99-107
- **Unni, J. (2018).** Formalization of the Informal Economy: Perspective of Capital and Labour, *Indian Journal of Labour Economics*, 61 (1), 87-103
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## CONFERENCE PROCEEDINGS

- **Bhatt, V., Kadiya, S. & Chocha, V. (2019).** Indian Premier League’s (IPL) TV Advertisements: A Reaction Profile Proceedings of the 13th Biennial Conference, Entrepreneurship Development Institute of India, Gandhinagar, February 20-22, 744-752
- **Chocha, V. & Bhatt, V. (2019).** Retail Business Transformation and Consumer Experience: An Experimental Perspective. Proceedings of the 13<sup>th</sup> Biennial Conference, Entrepreneurship Development Institute of India, Gandhinagar, February 20-22, 753-763
- **Mehta, B., Panda, R. & Jagani, K. (2018).** Irritate Me and I will Block You! Consumer’s Cognitive Process Leading to Ad Blockers. Bridging Asia and the World - Searching for Academic Excellence and Best Practices in Marketing and Management. Proceedings of the International Marketing Conference GAMMA 2018, Tokyo Japan, July 26-29, 67-69



- **Sharma, E. (2018).** Sustainable HRM: Reorienting Human Resource Management Motive to be More Responsible. Proceedings of Sustainable HRM: Practices, Policies and Perspectives in South Asia, Hyderabad, November 01-02, 27-31
- **Saxena, S. & Diwedi, A. (2019).** Interaction among Family Business Roles. Proceedings of the 15<sup>th</sup> Annual Family Enterprise Research Conference: University of Vermont, USA, May 28-30, 312-345
- **Saxena S. (2018).** Gender Role Congruity in Family businesses. Proceedings of Entrepreneurship and Innovation in Emerging Markets: AIBSEAR Hong Kong, December 06-08. 128-142
- **Saxena, S. & Pandya, R. (2019).** Conflict Resolution through Emotions and Networks. Proceedings of the 25<sup>th</sup> Meet of International Network for the SNA (INSNA), University of Montreal, Canada, April 17-21, 24-32
- **Saxena, S. & Gokhru, A. (2018).** Social provisions for successors in Family Businesses. PAN IIM Conference Proceeding, IIM-B, Bengaluru, December 13-15, 127-142
- **Saxena, S. & Gokhru, A. (2019).** Social Network interactions in Family businesses of India. Proceedings of the 13<sup>th</sup> Biennial Conference on Entrepreneurship: EDI Ahmedabad, Ahmedabad, February 20-22. 632-641
- **Thomas, S. (2018).** Determinants of Cause-Related Marketing Participation Intention. Big Ideas and New Methods in Marketing, 2018. Proceedings of the AMA Summer Academic Conference, Boston, USA, August 10-12. Vol. 29, 58-61 (ISBN: 978-0-87757-002-8)
- **Jhaveri, H.** “The ‘I’s and ‘U’s in the relationship between Business Angels and startups,” AMJ Paper and Idea Development Workshop, IIM-A, Ahmedabad, April 2019
- **Jhaveri, H. & Saraf, D.** “Spin-offs in India: Do they add value to the shareholders’ wealth?” SIMARC18, Symbiosis Institute of Management Studies, Symbiosis International Deemed University, Pune, December 2018
- **Mehta, B. & Shah, P.** “Online vs. Offline - What do women led startups use more to enhance social capital?” 22<sup>nd</sup> Interdisciplinary Conference on Entrepreneurship, Innovation and SMEs, Stuttgart Media University, Germany, October 2018
- **Mehta, B., Panda, R. & Jagani, K.** “Irritate Me and I Will Block You! - Consumer’s Cognitive Process Leading to Ad Blockers,” GAMMA - Global Marketing Conference 2018, Tokyo, Japan, July 2018
- **Parikh, J. & Kalro, A.** “A Comparative Analysis for Mapping Relative Position of Bank Brands: An Application of Attribute-based Perceptual Mapping Using Factor Analysis and Data Envelopment Analysis,” European Conference of Operational Research (EURO 2018), Valencia, Spain, July 2018
- **Parikh, J.** “Mapping Public Perceptions of Universities of Higher Education in India: A Comparative Analysis using DEA and Quantile Regression,” EURO K Conference 2019, Dublin, June 2019
- **Patel, S.** “Making visible the invisible: Women Artists and Herstory. Changing Contours of Women’s Paid and Unpaid Work,” National Seminar on ‘Experiences, Aspirations and Struggles: New Middle Class in Indian Cities,’ School of Management and Labour Studies, Tata Institute of Social Sciences, Mumbai, July 2018

## CONFERENCE PRESENTATIONS

- **Agrawal, A.** “Syndicate Bank: The Case of Forgotten Bank that Pioneered Financial Inclusion,” Second Workshop on South Asian Economic History, London School of Economics, May 2019
- **Ameen, KT S.** “Indigenous ShipBuilding Landscape and Community: Khalasis of Beypore, South India,” International Conference on Heritage Management Education and Practice: Developing Integrated Approaches, Ahmedabad, December 2018
- **Das Gupta, S.** “Using real options to study the impact of capacity additions and investment expenditures in renewable energies in India,” Midwest Economics Association, 83<sup>rd</sup> Annual Meetings, St. Louis, USA, March 2019
- **Panchamia, J. & Bihani, A.** “Study on Structural Organicity-Turnover Intention relationship among salespeople of pharmaceutical sector in India”. 17<sup>th</sup> International Asian Conference of the Academy of Human Resource Development. Bangkok, Thailand, November 2018
- **Pandey, S.** “Understanding Entrepreneurial Competencies among Undergraduate Students from Family Business Background”. 6<sup>th</sup> Pan IIM Conference, IIM-B, Bengaluru, December 2019
- **Pandya, P.** “Private Now, Private Then in Indian Higher Education,” 9<sup>th</sup> International Conference of the International Society of India (CESI) on Modernity, Transformative Social Identities and Education in Comparative Contexts, Vadodara, December 2018

- **Saiyed, A.** “New Venture’s Capabilities and internationalisation under the contingent influence of Industry Context in a transition period in emerging economies,” Academy of International Business. Minneapolis, USA, June 2018
- **Saiyed, A.** “New Venture’s Capabilities and internationalisation under the contingent influence of Industry Context in a transition period in emerging economies,” AIB Paper Development Workshop, Hyderabad, December 2018
- **Saiyed, A.** “Role of innovation in internationalisation decisions in emerging economies: A Study of Inward Outward Internationalisation Choices in India,” Junior Faculty Consortium in Academy of International Business. Minneapolis, USA, June 2018
- **Saxena, S. & Pandya, R.** “Social provisions of family business networks,” Family Enterprise Research Conference, University of Vermont, USA, May 2019
- **Saxena, S.** “Gender Role congruity in Family businesses,” 13<sup>th</sup> Biennial Conference on Entrepreneurship, Entrepreneurship Development Institute, Ahmedabad, February 2019
- **Sharma, E.** “Defining HRM for sustainability. Sustainable Human Resources Management: Practices, Policies and Perspectives in South Asia,” University of Hyderabad, Hyderabad, November 2018
- **Sharma, E. & Miroshnik, K.** “Psychometric properties of the Russian version of creativity nurturing behaviour scale for teachers,” Conference on Psychology of XXI Century, St. Petersburg University, Russia, April 2019
- **Thomas S., Pervin G. & Sanket V.** “A. N. Gandhi & Firm – Wealth Creation Challenges,” 7<sup>th</sup> Asian Invitational Conference on Family Business, Thomas Schmidheiny Centre for Family Enterprise, Indian School of Business, Hyderabad, February 2019
- **Thomas S. & Pathak B.** “An exploratory study of the determinants of cause related Marketing participation,” AMA Summer Academic Conference 2018, Boston, USA, August 2018
- **Trivedi, T.** “On the Vectors of Intangible Cultural Heritage and History: A Study of Indo-Fijian Literary Tradition,” 2<sup>nd</sup> International Conference on Heritage Management and Practice: Developing Integrated Approaches, Centre for Heritage Management, Ahmedabad, December 2018
- **Unni, J.** “Growth and Expansion of Informal Enterprises,” International Conference on ‘Future of Employment: Challenges and Opportunities,’ Symbiosis University, Pune, February 2019
- **Unni, J., Pandey, V. & Singh, S.** “Spill-over Effects of Formal Political Institutions and Development Market Interventions on Women Empowerment: Non-Experimental Evidence from India,” Annual Conference of Development Studies Association, University of Manchester, UK, June 2018
- **Unni, J. & Naik, R.** “A Gendered View of Entrepreneurial Ecosystem, Individual. Characteristics and Innovative Enterprises,” 20<sup>th</sup> Anniversary Conference of the Association of Heterodox Economics, De Montfort University, UK, July 2018
- **Unni, J. & Naik, R.** “Puzzle of Low Return Entrepreneurship and Small Business in India: Do behavioural traits Matter?” 60<sup>th</sup> Annual Conference of the Indian Society of Labour Economics, Indira Gandhi Institute of Development Research, Mumbai, December 2018
- **Vyas, P.** “Can the Rise in Women’s Wage Premia Explain the Fall in Teen Birth Rates?” Society of Labour Economists (SOLE 2019), Arlington, USA, May 2019

#### INVITED LECTURES

- **Agrawal, A.** National Seminar on “Finance and Banking in Princely States of Western India,” MS University, Vadodara, February 2019
- **Agrawal, A.** “Teaching Macroeconomics from Core Textbook,” Azim Premji University, Bangalore, October 2018
- **Ameen, KT S.** “Research Methodology for Heritage Studies,” INTACH Heritage Academy, New Delhi, February 2019
- **Ameen, KT S.** Heritage Research (brainstorming session), INTACH Heritage Academy, New Delhi, May 2019
- **Baxi, H.** Union Budget Analysis, Doordarshan Gujarati - DD Girnar, Ahmedabad, February 2019
- **Chandra, P.** Keynote Speaker, National Technology Day, Space Application Centre, Indian Space Research Organisation, Ahmedabad, May 2019
- **Chandra P.** Keynote Speaker, International Conference on Education, SNDT University, Mumbai, January 2019
- **Chandra, P.** Institute Lecture, Indian Institute of Technology, BHU, Varanasi, September 2018
- **Mehta, B.** “I am in the number game. Do I need to do research?” Institute of Chartered Accountants of India, Ahmedabad, April 2019

- **Parikh, J.** “Marketing and Branding Biotech Products,” Entrepreneurship Development Institute, Gandhinagar, April 2019
- **Singh, R.** “Science and Scientific Writing,” at the Annual Conference of the National Academy of Psychology (India), Delhi University, New Delhi, December 2018
- **Singh, R.** “Guiding university students for research,” Orientation Programme for Younger Faculty, Nirma University, Ahmedabad, June 2018
- **Thomas, S.** “Testing the Influence of Message Framing, Donation Magnitude and Product Category in a Cause-related Marketing Context,” Ahmedabad University, Ahmedabad, April 2019
- **Tirupati, D.** Delivered the First Dwijendra Tripathi Memorial Lecture as Distinguished Plenary Speaker, the 13th Biennial Conference on Entrepreneurship at EDII, February 2019
- **Trivedi, T.** “Gender, Sexual and Reproductive Rights,” Indian Institute of Public Health, Gandhinagar, November 2018
- **Trivedi, T.** “Gender Friendly Hospitals,” Indian Institute of Public Health, Gandhinagar, April 2019
- **Trivedi, T.** ICHR Sponsored National Seminar on “Finance and Banking in Princely States of Western India,” Maharaja Sayaji Rao University, Vadodara, February 2019
- **Unni, J.** “Platform or Gig Economy: Blurring Formal-Informal Lines,” St. Xavier’s College, Ahmedabad, February 2019
- **Unni, J.** “Platform or Gig Economy: Blurring of Formal Informal Lines,” Flame University, Pune; February 2019







Ahmedabad  
University



# SCHOOL OF ARTS AND SCIENCES

Envisioned as a thriving center for research and higher education, the School of Arts and Sciences is an ambitious experiment in interdisciplinarity. The School aims to create an intellectual environment that will bridge the frontiers of cutting-edge research across the physical sciences, social sciences and humanities. Challenging conventional notions of expertise in research and pedagogy as best located in disciplinary methods, outcomes and understanding, the School stresses the importance of collaborative, interdisciplinary learning and cross field methodologies.

## Overview

During the last academic session, the School of Arts and Sciences designed five new Undergraduate Programmes, which will be offered in the upcoming academic year. The School had eleven new faculty members joining across divisions during this period. In addition, Professor Maya Jasanoff, Coolidge Professor of History at Harvard University, joined the Humanities and Languages division as a Visiting Professor. Professor Darshini Mahadevia, former Dean, Faculty of Planning, at CEPT University, joined the Social Sciences division as a Visiting Professor. Work on the upcoming campus building continues to progress steadily. Furthermore, the School hosted several engaging lectures by eminent scholars from India and abroad as part of the University Seminar and Lecture Series.

## Programmes

- Doctoral Programme in Biological and Life Sciences
- Integrated Master of Science Programme in Life Sciences
- Master of Arts in Economics (offered jointly with the Amrut Mody School of Management)

## Faculty Highlights



**Aparajith Ramnath** received the Young Historian of Science Award from the Indian National Science Academy.



**Raghavan Rangarajan** was Member, National Organising Committee, DAE-BRNS High Energy Physics Symposium, IIT Madras, Chennai, December 10 -14, 2018.



**Subhash Rajpurohit** received the prestigious Ramanujan Fellowship from DST-SERB, Government of India.





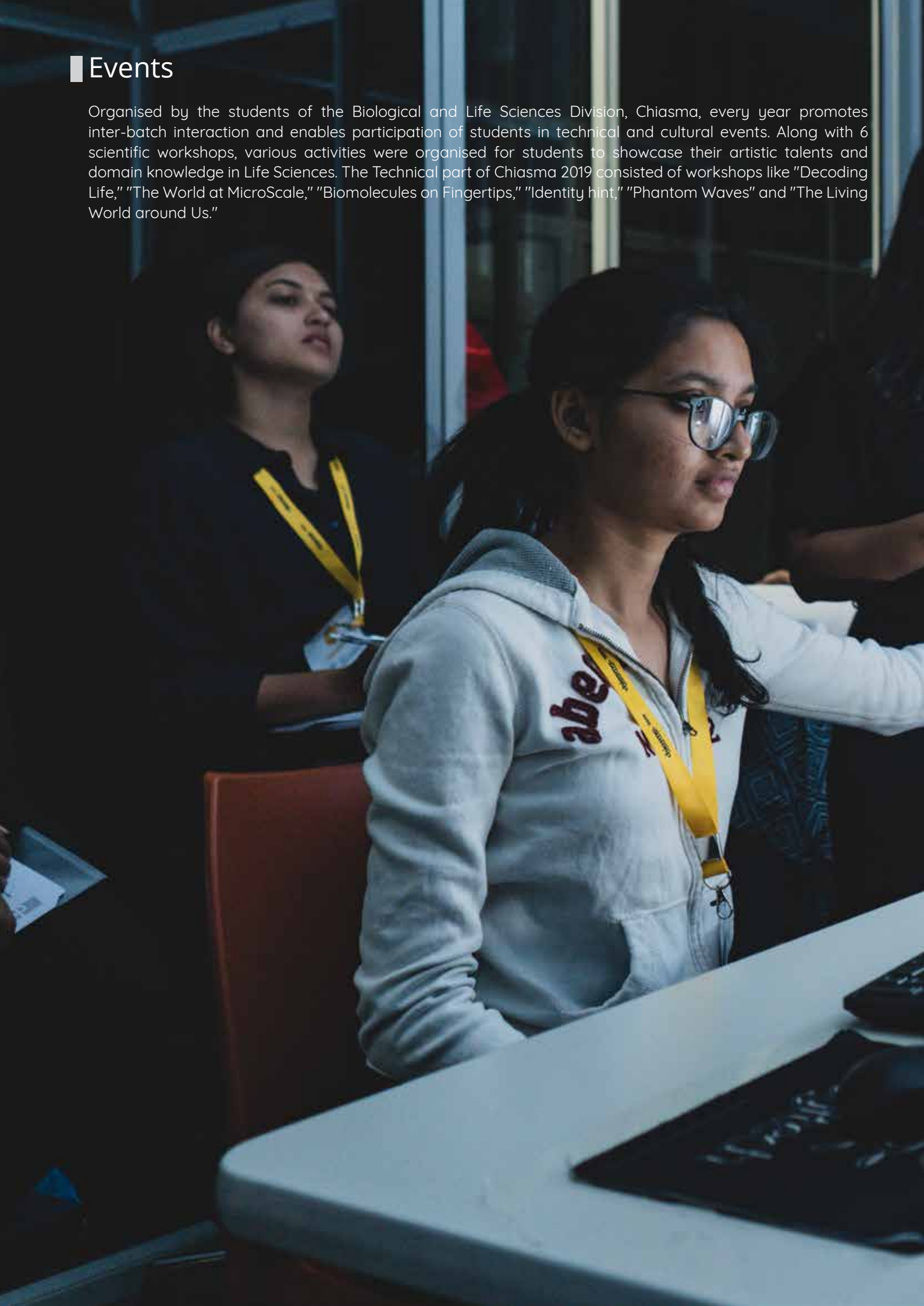
**Ritesh Shukla**, Faculty School of Arts and Sciences was invited to lecture in China (September 2018) and Russia (March 2019) on his research work on DNA Forensics. In addition, Tata Consultancy Services, India has appointed Professor Shukla as a subject Matter Expert for DNA Forensics. He was also elected as a member of two International Scientific societies 'Silk Road Forensic Consortium, China and the International Society of Forensic Genetics.



**Neha Jain** was awarded the ASM-IUSSTF Research Professorship to conduct research at Temple University, Philadelphia from May-July 2019. The award includes USD\$10,000 from the American Society for Microbiology and Temple University as part of the Indo-US Science and Technology Forum.

## ■ Events

Organised by the students of the Biological and Life Sciences Division, Chiasma, every year promotes inter-batch interaction and enables participation of students in technical and cultural events. Along with 6 scientific workshops, various activities were organised for students to showcase their artistic talents and domain knowledge in Life Sciences. The Technical part of Chiasma 2019 consisted of workshops like "Decoding Life," "The World at MicroScale," "Biomolecules on Fingertips," "Identity hint," "Phantom Waves" and "The Living World around Us."







## Student Activities and Achievements

**Monil Shah**, a third year Integrated Master's in Life Sciences student was selected for the Summer Research Fellowship Programme by the Indian Academy of Sciences. He was assigned a two months summer project at IISER, Pune under Dr Suhita Nadkarni (computational neurobiology lab), 15th May to 22<sup>nd</sup> July 2019.

**Rajsee Joshi**, of Integrated Master's in Life Sciences was awarded the "A. R. Rao Memorial Young Researcher Award" at the Cancer Symposium held

at JNU-New Delhi, for presenting work on "Effect of Cyclic Mismatch Binding Ligands (CMBLs) over OncomiRs in Cervical Cancer" under guidance of Professor Sudhir Krishna, NCBS-TIFR.

**Dinesh Konka**, a doctoral student at the division of Biological and Life Sciences, participated in the workshop conducted by Eppendorf entitled "Centre Stage in Cell Culture," on 20<sup>th</sup> February 2019 held at Ahmedabad, Gujarat.

## Field Visits

### Nalsarovar Bird Sanctuary

As a part of the Animal Behaviour course, a trip to the Nalsarovar Bird Sanctuary, the largest wetland bird sanctuary of Gujarat and considered one of the largest in India and mainly occupied by migratory birds, was organised by Professor Ratna Ghosal, on 27th October 2018.

### Thol Bird Sanctuary and Indroda Park (GEER Foundation), Gandhinagar

This field trip was planned as part of the project based pedagogy of the School to show students how closely nature works in accordance with the whole ecosystem. The field trip took the students on 3rd November 2018 to two places: Thol Bird Sanctuary in the outskirts of Ahmedabad and Gujarat Ecological Education and Research (GEER) Foundation's Indroda Park in Gandhinagar.





## Placements

**Ragini Singh**, graduated in December 2018 from Dr Sanjay's Singh lab and is currently working as Assistant Professor, Liaocheng University, China.

**Tirthak Golwala**, Western Sydney University, Australia: Master's in Public Health

**Yashvi Parikh**, University of Technology Sydney, Australia: Master of Medical Biotechnology

**Nidhi Panchal**, Swinburne University of Technology, Australia: Master's in Science

**Zarin Daver**, University of Melbourne, Australia: Master of Biotechnology

## Guest Lectures

**Professor Rita Kothari**, Ashoka University and **Dr Abhijit Kothari**, Businessman and Academic, in conversation with Professor Patrick French on the Book translation of "The Lord and Master of Gujarat" by K M Munshi, 8<sup>th</sup> August 2018

**Professor Raghavendra Gadagkar**, Centre for Ecological Sciences, Indian Institute of Science, Bangalore on "Can We Understand an Insect Society ... And Why Should We Care?" 22<sup>nd</sup> August 2018

**Professor Patrick French**, Ahmedabad University and **Ashoke Chatterjee**, Former Executive Director, National Institute of Design, on "V.S. Naipaul and His World," 4<sup>th</sup> September 2018

**Jahnvi Phalkay**, Founding Director, Science Gallery Bengaluru and Author of "Thinking beyond Science Communication at Science Gallery Bengaluru," 10<sup>th</sup> October 2018

**Professor Shruti Kapila**, Cambridge University on "Radical Conservatism in Twentieth Century India," 23<sup>rd</sup> January 2019

**Gurcharan Das**, Author, New Delhi, on "Making a life versus Making a living," 20<sup>th</sup> February 2019

**Ms Kalpana Viswanath**, Co-founder and CEO, SafetiPin on "Using data to build gender friendly public spaces," 21<sup>st</sup> May 2019





## Research Seminars

**Sarthak Bagchi**, Leiden University, Netherlands "Can Clientelism be Democratic? A View from the Shops of Power in India," 20<sup>th</sup> April 2018

**Professor Mary Ann Chacko**, Ahmedabad University, "The Role of Newspapers within Ethnographic Research," 2<sup>nd</sup> May 2018

**Dr Rama Ratnam**, University of Illinois at Urbana-Champaign, USA, "Sensation and Sensory Perception: From Single Neurons to Behaviour," 5<sup>th</sup> June 2018

**Dr Krishna Swamy**, Institute of Molecular Biology, Academia Sinica, Taiwan, "Genes and Speciation: What Can We Learn About Evolution Using Yeast?" 7<sup>th</sup> June 2018

**Dr Gangeya Mukherji**, Ahmedabad University, "Vivekananda: The Responsibility of Renunciation," 13<sup>th</sup> July 2018

**Professor Vipul Bansal**, RMIT University, Australia, "NanoZyme Technologies: From Environmental & Clinical Diagnostics to Promising Antimicrobial Agents and Pro-drug," 2<sup>nd</sup> August 2018

**Dr Aditya Vaishya**, Vikram Sarabhai Space Centre, Thiruvananthapuram, "Aerosols, Climate and Climate Change," 13<sup>th</sup> August 2018.

**Dr Tushar Vaidya**, CSIR- Centre for Cellular and Molecular Biology, Hyderabad, "Of Infection and Immunity," 20<sup>th</sup> August 2018

**Dr Madhavi Gupta**, Independent Scholar, Goa, "Popular mobilization and State Responsiveness: The Case of Education in India," 23<sup>rd</sup> August 2018.

**Professor Apaar Kumar**, Manipal Centre for Humanities, Manipal, "Kant and Spontaneity: The Absolute-Relative Debate," 12<sup>th</sup> September 2018

**Dr Maya Ratnam**, University of Delhi, New Delhi, "Fluid Land: Encroachment, Possession and Property in the Forest Fringes," 26<sup>th</sup> September 2018

**Professor Samuel Wright**, Ahmedabad University, "The Manuscript Economy and Reading Communities in Early Modern India," 9<sup>th</sup> October 2019

**Dr Srinath Raghavan**, Centre for Policy Research, New Delhi, "The Most Dangerous Place: A History of the United States in South Asia," 17<sup>th</sup> October 2018

**Dr Joseph Van Weelden**, McGill University, Canada, "Desire and Heart of Subjectivism," 26<sup>th</sup> November, 2018

**Professor Patrick French**, Ahmedabad University, "Mooring Lessing: Archival and Oral Research Methods in Biography," 4<sup>th</sup> December 2018

**Dr Jacob Stump**, University of Toronto, Canada, "On Socrates' Project of Philosophical Conversion," 4<sup>th</sup> December 2018

**Professor Sushant Kachhap**, John Hopkins University, School of Medicine, USA, "Molecular Targets for Prostate Cancer," 5<sup>th</sup> December 2018

**Professor Neha Jain**, Ahmedabad University, "Inhibition of Curli assembly and biofilm formation in E.coli by Human Chaperone-like proteins," 6<sup>th</sup> December 2018

**Professor Gary Yeritsian**, University of California, Los Angeles, USA, "Participation From Above and Below: Audience Participation and the New Spirit of Capitalism," 11<sup>th</sup> December 2018

**Professor Ornit Shani**, Department of Asian Studies, Haifa University, Israel, "How India Became Democratic," 12<sup>th</sup> December 2018

**Professor Christophe Jaffrelot**, King's College, UK and CERI, Sciences-Po and CNRS, France, "The New Urban Rural Divide and its Implications in Gujarat Politics: Inequalities and Reservations," 17<sup>th</sup> December 2018

**Professor Mukul Sharma**, Indian Institute for Mass Communication, New Delhi, "Governing the Sacred Groves: Religion, Politics, Institutions," 18<sup>th</sup> December, 2018

**Dr Nishith Gupta**, Department of Molecular Parasitology, Humboldt University, Germany, "Intracellular Parasitism 101- Survival Strategies of a Eukaryote inhabiting another Eukaryote box," 21<sup>st</sup> December 2018

**Professor Maya Jasanoff**, Harvard University, USA, "What Have the British Done to Us? Revisiting Empire in a Global Age," 7<sup>th</sup> January 2019

**Professor Sheeba Vasu**, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, "Circadian Clocks: Internal Timekeepers and their Underlying Cellular and Molecular Basis," 11<sup>th</sup> January 2019

**Dr Shamika Ravi**, Brookings Institute India, New Delhi, "Missing Women in India's Democracy," 16<sup>th</sup> January 2019

**Dr Tony Thomas**, Centre for Cognitive Science, IIT Gandhinagar, Gandhinagar "Altered Perceptual and Attentional Mechanisms in the Peri-hand Space," 22<sup>nd</sup> January 2019

**Sourav Sarkar**, Massachusetts Institute of Technology, USA "Votes and Policies: Evidence from Close Elections in India," 23<sup>rd</sup> January 2019

**Professor Shruti Kapila**, Cambridge University, UK, "Radical Conservatism in Twentieth Century India," 23<sup>rd</sup> January 2019

**Professor Raj Gandhi**, Harish Chandra Institute, Allahabad, "Our Universe and Particle Physics," 6<sup>th</sup> February 2019

**Dr Jacques Neefjes**, Department of Cell and Chemical Biology, Leiden University Medical Centre, Netherlands, "Bacterial Infections as Initiators of Tumor Formation," 14<sup>th</sup> February 2019

**Professor Pattanathu Rahman**, School of Biological Sciences, University of Portsmouth, UK, "Research and Developments in Biosurfactants and the Introduction of Synthetic Biology to Improve Microbial Processes," 22<sup>nd</sup> February 2019

**Dr Chandra Verma**, Bioinformatics Institute A\*STAR, Singapore, "Molecular Modelling: An Aid to Guide Bimolecular Mechanism-based Therapy," 27<sup>th</sup> February 2019

**Dr Dileep Vasudevan**, Institute of Life Sciences, Bhubaneswar, "Protein Structure Determination by X-ray Crystallography-an Overview," 4<sup>th</sup> March 2019

**Dr Divita Singh**, Interdisciplinary Program in Cognitive Science, IIT Kanpur on "Automatic and Controlled Processes in Temporal Selection," 5<sup>th</sup> March 2019

**Professor Prasenjit Duara**, Duke University, US, Rajni Kothari Fellow- CSDS, New Delhi, "Sacred Ecologies: Sustainability and Transcendence in contemporary Asia," 6<sup>th</sup> March 2019

**Dr Debajyoti Sarkar**, Institute of Theoretical Physics, Albert Einstein Center, University of Bern, Switzerland, on "Decoding Space-Time from Field Theory," 7<sup>th</sup> March 2019

**Professor Manomohini Dutta**, School of Arts and Sciences, Ahmedabad University, "The Theory, Structure, and Degrees of Svātva in the Dāyabhāga," 15<sup>th</sup> April 2019

**Dr Ipshita Chowdhury**, Indian Institute of Sciences, Bangalore, "Road Safety: The Cognitive Ergonomics Approach," 18<sup>th</sup> March 2019

**Dr Anjan Ananda Sen**, Centre for Theoretical Physics, Jamia Millia Islamia University, New Delhi, "Dark Energy and the Accelerating Universe," 6<sup>th</sup> May 2019

**Dr Pavan Agarwal**, Janelia Research Campus, Howard Hughes Medical Institute, USA, "Lost & Lonely: Studying Emotions, Transcriptome and Epigenome due to Aggressive Encounters and Social-Isolation in Fruit Fly *Drosophila*," 7<sup>th</sup> May 2019





## Intersections

The Intersections seminar series in the School of Arts and Sciences is structured in the format of short non-technical research presentations by faculty members and it hopes to facilitate the development of common languages for academic conversations across disciplines.

- **Aparajita Basu and Ashutosh Kumar**, “Intentions: Powerful or Less Important Than We Think,” 4<sup>th</sup> April 2018
- **Subhash Rajpurohit and Ashwini Pande**, “Symmetry: Numbers and Life Perspectives,” 8<sup>th</sup> August 2018
- **Aparajith Ramnath and Karthik Rao Cavale**,

“The Technics, Civics, and the Politics of Expertise,” 19<sup>th</sup> September 2018

- **Professors’ Neel Kamal Chapagain, Ajay Karakoti, Subhash Rajpurohit, Anurag Lakhlani and Minal Pathak**, “Assessment of Abiotic and Biotic Stresses on Historic Monuments: Developing an Integrated Research Framework for Built Heritage Management,” 14<sup>th</sup> November 2018
- **Professors’ Aparajita Basu, Manish Datt, Noopur Thakur, Jeemol Unni, and Leya Mathew**, “Connecting the Dots: Interdisciplinarity in Pedagogy,” 20<sup>th</sup> March 2019





# Grants

**Name:** Manomohini Dutta

**Grant for:** Travel, to attend the international conference, 229<sup>th</sup> Annual Meeting of the American Oriental Society, Chicago, USA, 15<sup>th</sup> to 18<sup>th</sup> March 2019.

**Grant Awarded by:** University Research Board, Ahmedabad University

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**Name:** Mary Ann Chacko and Leya Mathew

**Grant for:** Conference Grant for Advancing Education Research.

**Grant Awarded by:** Spencer Foundation, USA

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**Name:** Neha Jain

**Grant for:** Early Career Research Award for the project entitled “Modulation of  $\alpha$ -Synuclein Amyloid Assembly by Human Chaperone-like Proteins” for 2019-2021.

**Grant Awarded by:** Science and Engineering Research Board, DST, India

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**Name:** Noopur Thakur

**Grant for:** “Crosstalk between TGF $\beta$  signaling and the epigenetic states in driving tumorigenesis”.

**Grand Awarded by:** Science and Engineering Research Board, Department of Science & Technology, India

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**Name:** Raghavan Rangarajan

**Grant for:** DST – RSF Joint Research Project on “Cosmological Dark Matter, Primordial Black Holes, Bose-Einstein Condensates and Charge Asymmetry of the Universe”.

**Grant Awarded by:** Department of Science & Technology

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**Name:** Ratna Ghosal

**Grant for:** Ecological assessment of the exotic sailfin catfishes in the Indian freshwater systems and developing a species-specific molecular tool to measure their detection in the wild.

**Grant Awarded by:** Science and Engineering Research Board, Department of Science & Technology, India

**Name:** Sarthak Bagchi

**Grant for:** For participating in the election studies project, ‘Mediatized Politics: Visual Diaries of Indian Elections 2019’

**Grant Awarded by:** M.S. Merian – R. Tagore International Centre of Advanced Studies ‘Metamorphoses of the Political’ (ICAS-MP), Germany

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**Name:** Subhash Rajpurohit

**Grant for:** Cuticle soft or hard: how do insect balance water?

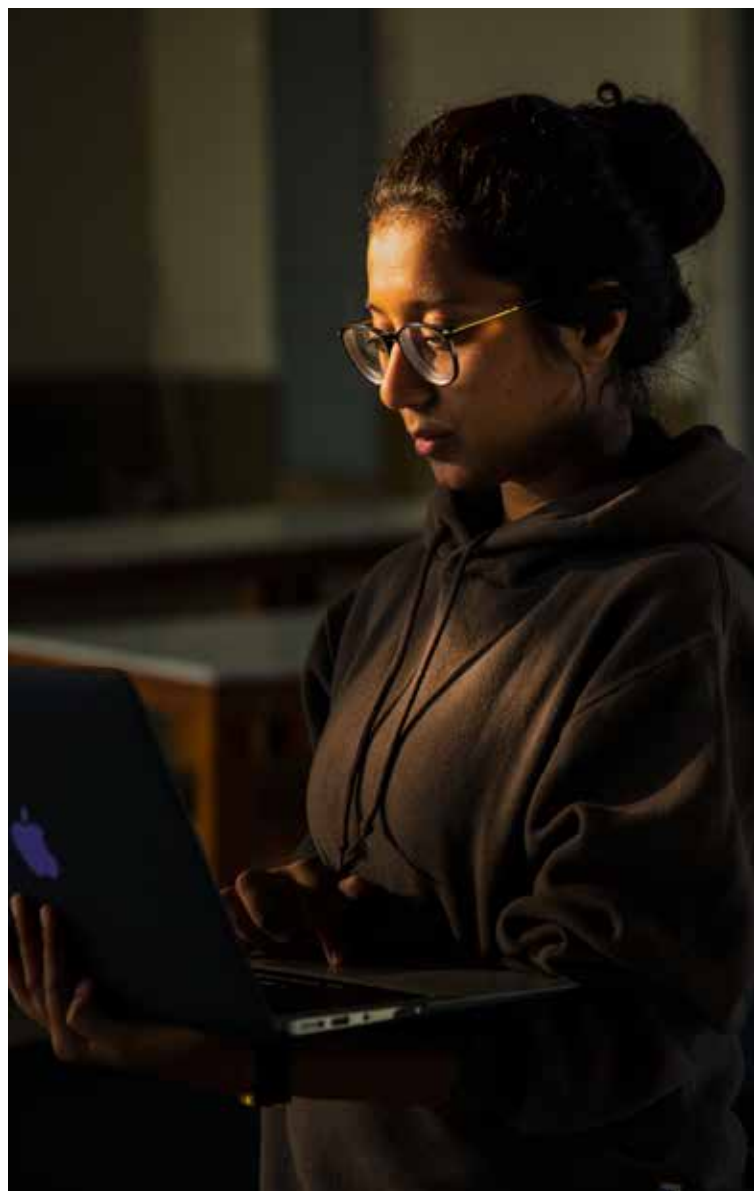
**Grant Awarded by:** Science & Engineering Research Board, Department of Science & Technology, India

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**Name:** Vallabani, NVS

**Grant for:** Travel, to attend the 6<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials, Spain, 11- 15<sup>th</sup> March 2019.

**Grant Awarded by:** CSIR, India



# Research at the School of Arts and Sciences

## STUDENT PRESENTATIONS

### Doctoral Students

- **Naik, A.** "Evaluating TGF- $\beta$ -1 Levels in ER/PR Positive Breast Cancer and Triple Negative Breast Cancer during Anti-Estrogen Therapy," Presentation at Chaisma (division of Biological and Life Sciences, Ahmedabad University), Ahmedabad, January 2019
- **Bhagat, S.** "Multifunctional Antioxidant Nanoliposome-Mediated Delivery of PTEN Plasmids Restore the Expression of Tumor Suppressor Protein and Induce Apoptosis in Prostate Cancer Cells," Presentation at Chaisma (division of Biological and Life Sciences, Ahmedabad University), Ahmedabad, January 2019
- **Shah, J.** "Catalase Mimetic Activity of BSA Conjugated Magnesium Based Nanozymes and its Protection in Human Hepatocytes Cells from Oxidative Stress", Presentation at Chaisma (division of Biological and Life Sciences, Ahmedabad University), Ahmedabad, January 2019
- **Vallabani, N.V.S.** "Synergistic Peroxidase Mimetic Activity of Fe<sub>3</sub>O<sub>4</sub> Nanoparticles in Presence of ATP at Neutral pH," 5<sup>th</sup> International Conference on Nano Science and Nanotechnology (ICONN-2019) held at SRM IST, Chennai, 28<sup>th</sup>-30<sup>th</sup> January 2019
- **Vallabani, N.V.S.** "ATP-mediated Intrinsic Peroxidase-like Activity of Fe<sub>3</sub>O<sub>4</sub> NPs-based Nanozyme: One Step Detection of Blood Glucose at Physiological pH," 6<sup>th</sup> International Conference on Multifunctional, Hybrid and Nanomaterials Spain, organised by Elsevier group, 11- 15<sup>th</sup> March 2019
- **Kansara, K.** "Humic Acid Alters the Physiological and Biological Properties of Titanium Dioxide Nanoparticles in Aquatic Ecosystem," International Conference on Advances in Material Science and Applied Biology (AMSAB), Mumbai, 8<sup>th</sup> -10<sup>th</sup> January 2019
- **Meghani, N.** "Formulation of Fenugreek Nanoemulsion for Food Fortification," International Conference on Recent Advance in Food Processing Technology - Indian Institute of Food Processing Technology, iCRAFT- IIFPT, Thanjavur, 17<sup>th</sup> -19<sup>th</sup> August 2018
- **Patel, P.** "Anticancer activity of vitamin D encapsulated cinnamon oil nanoemulsion in Human Alveolar Carcinoma Cells," International Conference on Advances in Material Science and Applied Biology (AMSAB), Mumbai, 8<sup>th</sup> -10<sup>th</sup> January 2019
- **Patel, V.** Presented a poster on, "Evaluating the Ligand Mediated Enzyme Mimicking Activity of Cerium Oxide Nanoparticles," Eighth edition of ChEmference'18 organised by Department of Chemical Engineering, IIT Bombay, 19<sup>th</sup> - 20<sup>th</sup> 2018
- **Patel, V.** Presented a poster on, "A Novel Approach to Synthesize Favorably Stable Copper Colloid Nanoparticles," International Conference on Environmental and Biomedical Nanotechnology (ICEBN), School of Environmental Science, Jawaharlal Nehru University, New Delhi, 14<sup>th</sup>-15<sup>th</sup> September 2018
- **Raijiwala, P.** "Early Detection of Cardiac Biomarker, H-FABP with Point of Care Device," International Conference on Nanosciences and Engineering Application, JNTU Hyderabad, 4<sup>th</sup>-6<sup>th</sup> October 2018
- **Shah, J.** presented a poster entitled "Catalase Mimetic Activity of BSA Conjugated Magnesium based Nanozymes and its Protection in Human Hepatocytes Cells from Oxidative Stress," National Conference on Advances in Spectroscopy: Molecule to Materials (NCSAMM) organised by IITRAM by Ahmedabad, 4<sup>th</sup>-6<sup>th</sup> October 2018
- **Vashishtha, A., Gajjar, P., Mathur, D., Patel, N. and Mehta, R.** "Silibinin induces Cellular Senescence and Growth Arrest in Human Lung Cancer Cells," National Symposium on Innovations in Cancer Research: Translating OMICS to Therapeutics, Nirma University, Ahmedabad, 14<sup>th</sup>-15<sup>th</sup> September 2018

### Integrated MS Students

- **Bhagat, S.** "Multifunctional antioxidant nanoliposome-Mediated Delivery of PTEN Plasmids Restore the Expression of Tumor Suppressor Protein and Induce Apoptosis in Prostate Cancer Cells," National Conference on Advances in Spectroscopy: Molecule to Materials (NCSAMM) organised by IITRAM, Ahmedabad, 4<sup>th</sup>-6<sup>th</sup> October 2018
- **Jain, V.** "Replacement of Cetyltrimethylammonium Bromide by 11-Mercaptoundecanoic Acid from the Surface of Au/CeO<sub>2</sub> Core-Shell Nanoparticles that Retain one of their Nanozymatic Properties," National Conference on Advances in Spectroscopy: Molecule to Materials (NCSAMM) organised by IITRAM, Ahmedabad, 4<sup>th</sup>-6<sup>th</sup> October 2018

## BOOKS

- **Dhawan A., Singh S., Kumar A., & Shanker R. (2018)** Nanobiotechnology: Human Health and the Environment, Boca Raton: CRC Press
- **Kumar, A. & Dhawan A. (2019).** Nanoparticle-protein Corona: Biophysics to Biology. Cambridge CB40WF, UK: Royal Society of Chemistry
- **Singh, S. & Maurya, P. (2019).** Nanotechnology in Modern Animal Biotechnology Recent Trends and Future Perspectives, Singapore: Springer Nature

## BOOK CHAPTERS

- **Bagchi, S. (2019).** Re-evaluating Maratha Politics in Maharashtra: 2014 Assembly Elections and After. In Ashutosh Kumar & Yatindar Sisodia (Eds.) How India Votes: A State-by-State look (270-287), Hyderabad: Orient Blackswan
- **Ghosal, R. (2019).** Application of novel molecular tools in controlling invasive freshwater fish. In J.K. Sundaray and Mohd. Ashraf Rather (Eds.) Next Generation Research in Aquaculture (247-257), Delhi: Narendra Publishing House, India
- **Kumar, A. (2018).** Detection of Mutation in Prokaryotic Cells. In Mutagenicity: Assays and Applications (35-48), London, United Kingdom: Academic Press
- **Mahadevia, D. (2019).** Unsmart Outcomes of the Smart City initiatives: Displacement and Peripheralisation in Indian Cities, Urban Design Companion: A Sequel. In Tridib Banerjee and Anastasia Loukaitou-Sedris (Eds.) (310-324), United Kingdom: Routledge, Taylor and Francis Group
- **Mahadevia, D. & Desai, R. (2019).** Everyday Violence in Urban India - Is planning the Driver or Mitigator? Safe and Inclusive Cities: Ideas to Address Urban Violence, Poverty and Inequalities. Jennifer Salahub, John de Boer and Markus Gottsbacher (Eds.) (177-199), United Kingdom: Routledge
- **Patel, P. & Kumar, A. (2019).** Factors Affecting a Nanoparticle's Protein Corona Formation, Nanoparticle-protein Corona: Biophysics to Biology. In Kumar, A. and Dhawan, A. (Eds.) (61-79), Cambridge CB40WF, United Kingdom: Royal Society of Chemistry
- **Raijiwala, P., Pandya, A. & Shukla, R. (2019).** Analytical Approach to Investigate nanoparticles-protein Corona Complex, Nanoparticles-protein Corona: BioPhysics to Biology. In Kumar, A. and Dhawan, A. (Eds.) (61-79), Cambridge CB40WF, United Kingdom: Royal Society of Chemistry

- **Senapati, V.A. & Kumar, A. (2018).** Nanoparticles and the Aquatic Environment: Application, Impact and Fate. In Nanobiotechnology: Human Health and the Environment (299-323), Boca Raton: CRC Press
- **Singh, R. & Singh, S. (2019).** Nanomaterials in Human Disease Diagnosis. In Genomics and Clinical Diagnostics (249 -298), United Kingdom: Royal Society of Chemistry
- **Singh, S. (2018).** Factors Affecting the Toxicity of Engineered Nanomaterials: Interference and Limitations of In Vitro Assays. In Nanotoxicity: Toxicity Evaluation, Risk Assessment, and Management (97 - 124), London: Taylor & Francis
- **Wright, S. (2018).** Making Sense of Bhāṣā in Sanskrit: Radhamohan Thakur's Mahābhāvānusāriṇī-tīkā and Literary Culture in Early Eighteenth-Century Bengal. In Tyler Williams, Anshu Malhotra, and John Stratton Hawley (Eds.), Texts and Traditions in Early Modern North India (77-98), Delhi: Oxford University Press

## JOURNAL ARTICLES

- **Abdelrehim, N., Ramnath, A., Smith, A. & Popp, A. (2018).** Ambiguous Decolonisation: A Postcolonial Reading of the IHRM Strategy of the Burmah Oil Company. Business History. DOI: 10.1080/00076791.2018.1448384
- **Bhagat, S., Vallabani, S., Shutthanandan, V., Bowden, M., Karakoti, A. & Singh, S. (2018).** Gold Core/Ceria Shell Nanostructure: A pH Dependent Redox Active Nanozyme Mimicking Biological Multienzyme Complex Phenomenon. Journal of Colloid and Interface Science, 513, 831-842
- **Bhasne, K., Sebastian S., Jain, N. & Mukhopadhyay, S. (2018).** Synergistic Amyloid Switch Triggered by Early Heterotypic Oligomerization of Intrinsically Disordered  $\alpha$ -Synuclein and Tau. J Mol Biol., 430(16), 2508-2520
- **Dasgupta, A., Jain, R.K. & Rangarajan, R. (2018).** Effective Chemical Potential in Spontaneous Baryogenesis. Phys. Rev. D 98, 083527-1–13



- Dave, H., Bhandari, N., Mod, B., Shukla, R.K. & Pandya, A. (2018). Multifunctional silver-cellulose Nanocomposite as a Promising Plasmonic Sensing Platform. *Journal of Nanoscience and Nanotechnology*, 18 (8), 5461-5469
- Desai, R., Mahadevia, D. & Sanghvi, S. (2019) Urban Planning, Exclusion and Negotiation in an Informal Subdivision: The Case of Bombay Hotel, Ahmedabad. *International Development Planning Review*. DOI: 10.3828/idpr.2018.35
- Durmaz, E., Rajpurohit, S., Betancourt, N., Fabian, D.K., Kapun, M., Schmidt, P.S. & Flatt, T. (2019). A Clinal Polymorphism in the Insulin Signaling Transcription Factor Foxo Contribute to Life-History Adaptation in *Drosophila*. *Evolution* 73: 1774-1792. DOI: 10.1111/evo.13759
- Dutta, M. (2018). Upakāra: The Theory of Spiritual Service and Women's Inheritance in the Dāyabhāga. *The Journal of Hindu Studies*, 11 (3), 260-284
- Dutta, M. (2019). Dāya: The Conceptual Understanding of Inheritance and Gift in the Dāyabhāga. *Journal of Indian Philosophy*, 47 (1), 111-131
- Ghosal, R., Eichmiller, J.J., Witthuhn, B.A. & Sorensen, P.W. (2018). Attracting Common Carp to a Bait Site with Food Reveals Strong Positive Relationships Between Fish Density, Feeding Activity, Environmental DNA, and Sex Pheromone Release that could be used in Invasive Fish Management. *Ecology and Evolution*, 8(13), 6714-6727
- Gupta, G.S., Kansara, K., Shah, H., Rathod, R., Valecha, D., Gogisetty, S., Joshi, P. & Kumar, A. (2019). Impact of Humic Acid on the Fate and Toxicity of Titanium Dioxide Nanoparticles in *Tetrahymena pyriformis* and Zebrafish Embryos. *Nanoscale Advances*, 1, 219-227
- Jhala, D., Rather, H., Kedaria, D., Shah, J., Singh, S. & Vasita, R. (2019). Biomimetic PCL-Chitosan Nanofibrous Substrate Influenced Cell Cycle and ECM Secretion Affect Cellular Uptake of Nanoclusters. *Bioactive Materials*, 4, 79 - 86
- Karim, M.N., Singh, M., Weerathunge, P., Bian, P., Zheng, R., Dekiwadia, C., Ahmed, T., Walia, S., Gaspera, E.D., Singh, S., Ramanathan, R. & Bansal, V. (2018). Visible-Light-Triggered Reactive-Oxygen-Species-Mediated Antibacterial Activity of Peroxidase-Mimic CuO Nanorods. *ACS Applied Nano Materials*, 1 (4), 1694 - 1704
- Karim, M.N., Anderson, S.R., Singh, S., Ramanathan, R. & Bansal, V. (2018). Nanostructured Silver Fabric as a Free-Standing NanoZyme for Colorimetric Detection of Glucose in Urine. *Biosensors and Bioelectronics* 110, 8-15
- Klein, R.D., Shu, Q., Cusumano, Z.T., Nagamatsu, K., Gualberto, N.C., Lynch, A.J.L., Wu, C., Wang, W., Jain, N., Pinkner, J.S., Amarasinghe, G.K., Hultgren, S.J., Frieden, C. & Chapman, M.R. (2018). Structure-Function Analysis of the Curli Accessory Protein CsgE Defines Surfaces Essential for Coordinating Amyloid Fiber Formation. *mBio* DIO: 10.1128/mBio.01349-18
- Kumar, Apaar. (2019). Scheffler, Tradition and Value. *The Journal of Value Inquiry*, 53 (1), 1-17
- Mahadevia, D., Bhatia, N. & Sebastian, R. (2019). Gender Responsive Budgeting for Indian Cities - Case of Bhopal and Pune. *Environment and Urbanisation - Asia*, 10 (1), 44-62
- Mathew, L. (2018). Mandated Resistance, Embodied Shame: The Material and Affective Contours of a TESOL Method. *TESOL Quarterly*, 52/4, 748-771
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- Meghani, N., Dave, S. & Kumar, A. (2019). Nanofood and its Application - A Review. *BAOJ Nanotechnology*, 5, 1-16
- Patel, P., Kansara, K., Singh, R., Shukla, R.K., Singh, S., Dhawan, A. & Kumar, A. (2018). Cellular Internalisation and Antioxidant Activity of Cerium Oxide Nanoparticles in Human Monocytic Leukemia Cells. *International Journal of Nanomedicine*, 13, 39-41
- Patel, P., Meghani, N., Kansara, K. & Kumar, A. (2019). Nanotherapeutics for the Treatment of Cancer and Arthritis. *Current Drug Metabolism*. 20(6), 430-445
- Patel, V., Singh, M., Mayes, E.L.H., Martinez, A., Shutthanandan, V., Bansal, V., Singh, S. & Karakoti, A. (2018). Ligand-Mediated Reversal of the oxidation state dependent ROS Scavenging and Enzyme Mimicking Activity of Ceria Nanoparticles. *Chemical Communications*, 54 (99), 13973-13976
- Purohit, R. & Singh, S. (2018). Fluorescent Gold Nanoclusters for Efficient Cancer Cell Targeting. *International Journal of Nanomedicine*, 13, 15-17
- Ramnath, A. (2018). The Emergence of Engineering as a Profession in Modern India. *Indian Journal of History of Science*, 53, 4: T205-T210
- Rajpurohit, S. & Schmidt, P.S. (2019). Latitudinal Pigmentation Variation Contradicts Ultraviolet Radiation Exposure: A Case Study in Tropical Indian. *Drosophila Melanogaster*. *Frontiers in Physiology*, 10, 84-88, DOI: 10.3389/fphys.2019.00084

- **Rajpurohit, S., Gefen, S., Bergland, A.O., Petrov, D., Gibbs, A.G. & Schmidt, PS. (2018).** Spatiotemporal Dynamics and Genome-wide Association Analysis of Desiccation Tolerance. *Drosophila Melanogaster. Molecular Ecology* 27, 3525-3540
- **Rather, H.A., Singh, R., Singh, S., Thakore, R., Jhala, D. & Vasita, R. (2018).** Antioxidative study of Cerium Oxide Nanoparticle Functionalised PCL-Gelatin Electrospun Fibers for Wound Healing Application. *Bioactive Materials*, 3 (2), 201-211
- **Sachaniya, J., Savaliya, R., Goyal, R. & Singh, S. (2018).** Liposomal Formulation of Vitamin A for the Potential Treatment of Osteoporosis. *International Journal of Nanomedicine* 13, 51-53
- **Shah, A. & Gupta, S.S. (2019).** Anti-leishmanial Nanotherapeutics: A Current Perspective. *Current Drug and Metabolism*, 20 (6), 473-482
- **Shah, D., Savaliya, R., Patel, P., Kansara, K., Pandya, A., Dhawan, A. & Singh, S. (2018).** Curcumin Ag Nanoconjugates for Improved Therapeutic Effects in Cancer. *International Journal of Nanomedicine*, 13, 75-77
- **Shah, K.D., Bhagat, S., Varade, D. & Singh, S. (2018).** Novel Synthesis of Polyoxyethylene Cholesteryl Ether Coated Fe-Pt nanoalloys: A Multifunctional and Cytocompatible Bimetallic Alloy Exhibiting Intrinsic Chemical Catalysis and Biological Enzyme-like Activities. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 553, 50-57
- **Shah, J. & Singh, S. (2018).** Unveiling the Role of ATP in Amplification of Artificial Peroxidase Activity of Gold Nanoparticles: A Surface Charge Effect. *3Biotech*, 8 (1), 67
- **Shukla, R.K. & Pandya, A. (2018).** New Perspective of Nanotechnology: Role in Preventive Forensic. *Egyptian Journal of Forensic Sciences*, 8 (57), 1-11
- **Singh, P., Singh, S. & Pandi, G.S. (2018).** Effective Heart Disease Prediction System using Data Mining Techniques. *International Journal of Nanomedicine*, 13, 121-124
- **Singh, R. & Singh, S. (2018).** Redox-dependent Catalase Mimetic Cerium Oxide-based Nanozyme Protect Human Hepatic Cells from 3-AT induced Acatalasemia. *Colloids and Surfaces B: Biointerfaces*, 175, 625-635
- **Singh, S. (2018).** Liposome Encapsulation of Doxorubicin and Celecoxib in Combination inhibits Progression of Human Skin Cancer Cells. *International Journal of Nanomedicine*, 13, 11-13
- **Singh, S., Asal, R. & Bhagat, S. (2018).** Multifunctional Antioxidant Nanoliposomes-mediated Delivery of PTEN Plasmids Restore the Expression of Tumor Suppressor Protein and Induce Apoptosis in Prostate Cancer Cells. *Journal of Biomedical Materials Research: Part A*, 106 (12), 3152-3164
- **Singh, S. (2018).** Catalytically Active Nanomaterials: Artificial Enzymes of Next Generation. *Nanoscience Technology*, 4 (2), 1-6
- **Singh, S. (2019).** Nanomaterials Exhibiting Enzyme-like Properties (Nanozymes): Current Advances and Future Perspectives. *Frontiers in Chemistry*, 7, 46
- **Tanavade, V., Nguyen, M., Sem, N., Joseph, T., Vaz, C., Way, L., Hupp, T., Verma, C. & Madhusudhan, M. (2019)** Discovering Putative protein Targets of Small Molecules: A Study of the p53 Activator Nutlin. *Journal of Chemical Information and Modeling*, 59 (4), 1529-1546
- **Vallabani, N.V.S. & Singh, S. (2018).** Recent Advances and Future Prospects of Iron Oxide nanoparticles in Biomedicine and Diagnostics. *3Biotech*, 8 (6), 279
- **Vallabani, N.V.S., Shukla, R., Gupta, S. & Kumar, A. (2019)** ZnO Nanoparticles Associated Mitochondrial Stress Induced Apoptosis Activation and G2/M Arrest in HCaT Cells: A Mechanistic Approach. *Mutagenesis*. 34 (3), 265-277

## CONFERENCE PROCEEDINGS

- **Goswami, A., Patel, D., Raval, H., Rathod, R. & Ghosal, R. (2019).** Understanding Group and Individual Decision Making in a Freshwater Fish, *Poecilia spheops*. 42<sup>nd</sup> Annual Conference of Ethological Society of India, December 4-6. (pp-08)
- **Patel, P., Meghani N. & Kumar, A. (2019).** Anticancer Activity of Vitamin D Encapsulated Cinnamon Oil Nanoemulsion in Human Alveolar Carcinoma cells. *Proceedings of the International Conference on Advances in Material Science and Applied Biology (AMSAB)*, Mumbai, January 8-10. 69-69
- **Shukla, R. (2018).** Comet Assay: a Versatile Tool for DNA Forensics. *Proceedings of the 3rd Conference of Silk Road Forensic Consortium*, Yantai, China, September 17-18. 10-10
- **Shukla, R. (2019).** DNA Damaging Potential of Blood Enhancement Chemicals: Challenges in Blood Presumptive Test. *Proceedings of the 3rd International Research and Practice Conference on "The Datable Issues of the Theory and Practice of Judicial Expertise,"* Moscow, Russia, March 28-29. 17-18

## CONFERENCE PRESENTATIONS

- **Bagchi, S.** "What it Takes to Enter Elections: Consequences of Candidate Nomination Processes in India," Indian Democracy at Crossroads, UGC-CAS Program, Department of Political Science, University of Hyderabad, January 2019
- **Bagchi, S.** "Is Democracy in a Terminal Crisis?" Seminar on What is the Question? Organised by Raza Foundation and Foundation for Creative Social Research, India International Centre, New Delhi, March 2019
- **Chacko, MA.** "From 'broiler chicken' to 'ready made leaders': Re-inscribing Privilege through the Student Police Cadet Project in Kerala," Annual Meeting of the Comparative Education Society of India, Vadodara, December 2018
- **Deo, A.** "Technological Conversations with the Past: Sound Culture Studies and Modernity in Asia Conference," Association for Asian Studies in Asia Conference, India Habitat Centre, New Delhi, July 2018
- **Deo, A.** "Technological Conversations with the Past," Sound Culture Studies and Modernity in Asia Conference, Tokyo University of Foreign Studies, Tokyo, Japan, September 2018
- **Dutta, M.** "The Theory, Structure, and Degrees of Svatva in the Dāyabhāga," 229th Annual Meeting of the American Oriental Society, Chicago, USA, March 2019
- **Ghosal, R., Makecha, R., Nakai, Y. & Phalke, S.** "Assessing the Effects of a Cognition Based Education Programme in Attitudes of Villagers towards Asian Elephants (*Elephas maximus*) in Conflict Prone Areas," Living with Animals Conference. Eastern Kentucky University, USA, March 2019
- **Jain, N.** "Inhibition of Curli Assembly and Biofilm formation in *E. coli* by Human Chaperone-like Proteins," 8<sup>th</sup> ASM Conference on Biofilms, Washington D.C., USA, October 2018
- **Jain, N.** "Navigating the Fate of Amyloids: From Disease to Function," Ten years of SM Lab: One Day symposium, IISER Mohali, December 2018
- **Kansara, K., Karakoti, A. & Kumar A.** "Humic Acid alters the Physiological and Biological Properties of Titanium Dioxide Nanoparticles in Aquatic Ecosystem," International Conference on Advances in Material Science and Applied Biology (AMSAB), Mumbai, January 2019
- **Kumar, A.** "Formulation of Fenugreek Nanoemulsion for Food Fortification," International Conference on Recent Advance in Food Processing Technology, Thanjavur, August 2018
- **Kumar, A.** "Teaching Self-Respect: The Very Idea," International conference on The Ethics of Teaching in Pluralistic and Unequal Societies, Department of Humanities and Social Sciences, IIT Bombay, Mumbai, November 2018
- **Kumar, A.** "Anticancer Activity of Vitamin D Encapsulated Cinnamon Oil Nanoemulsion in Human Alveolar Carcinoma Cells," International Conference on Advances in Material Science and Applied Biology (AMSAB), Mumbai, January 2019
- **Mahadevia, D.** "Including Street Vendors in the Master Plan," - WIEGO and IGSSS Conference on 'Towards a People's Master Plan: Interim Workshop in the Campaign to Revision the Master Plan of Delhi 2021-41,' New Delhi, March 2019
- **Mahadevia, D.** "Inclusive Urban Housing as Climate Resilience Strategy," National Workshop on Impacts, Vulnerability and Adaptation, Ministry of Environment, Forests and Climate Change, Government of India, New Delhi, February 2019
- **Mathew, L.** "Examining the public-private binary: An analysis of Education Research," Comparative Education Society of India, Vadodara, December 2018
- **Mathew, L.** "Constructing the Public private Binary: A Geneological Analysis of Education Research," Comparative Education Society of India, Vadodara, December 2018
- **Mathew, L.** "The Social Life of Rote," Annual Meeting of the Indian Sociological Society, Mysuru, December 2018
- **Meghani, N. & Kumar, A.** "Formulations of Fenugreek nanoemulsion for Food Fortification," International Conference on Recent Advances in Food Processing Technology. Indian Institute of Food Processing Technology, iCRAFPT-IIFPT, Thanjavur, August 2018
- **Rajpurohit, S.** "Molecules matter: Insect cuticular hydrocarbons," ISEB1: Celebrating Ecology and Evolution in India. First Conference of the Indian Society of Evolutionary Biologists, JNCASR, Bengaluru, October 2019
- **Ramnath, A.** "Ambiguous Decolonisation: A Postcolonial Reading of the IHRM Strategy of the Burmah Oil Company," XVIII<sup>th</sup> World Economic History Congress at the Massachusetts Institute of Technology, Boston, USA, July - August 2018
- **Ramnath, A.** "Technocratic Visions of Craft and Mechanisation: Sir M. Visvesvaraya's plans for Twentieth-Century Mysore and India," Workshop on 'Craft and Innovation in Modern Societies,' Co-Sponsored by the Society for the History of Technology (SHOT), the Chinese Institute for the History of Natural Sciences (IHNS), and the China National Silk Museum (CNSM), Hangzhou, China, June 2018



- **Shukla, R.K.** "Comet Assay: A Versatile Tool for DNA forensics," 3<sup>rd</sup> International Conference of Silk Road Forensic Consortium, Yantai, China, September 2018
- **Shukla, R.K.** "Application of Nanotechnology in Forensic Sciences: Innovation and Challenges," National Conference FORENSICON 2019 "Challenges and Innovations in Criminal Justice System," APJ Abdul Kalam Institute of Forensic Science and Criminology, Bundelkhand University, Jhansi, February 2019
- **Shukla, R.K.** "DNA Damaging Potential of Blood Enhancement Chemicals: Challenges in Blood Presumptive Test," 3<sup>rd</sup> International Research and Practice Conference "Matters of Theory and Practice of Forensic Exzamine," The Russian State University of Justice and the National Public Center of Expertise, Moscow, Russia, March 2019
- **Singh, S.** "Gold-core/Cerium-oxide Shell Nanostructure: A Redox Active Nanozyme Mimicking Triple Enzyme Activities," BIOMET, VIT, Vellore, July 2018
- **Singh, S.** "Nanozymes for Sensing and Therapeutic Applications", National Conference on Advances in Spectroscopy: Molecules to Materials," (NCASMM-2018), IITRAM, Ahmedabad, October 2018
- **Singh, S.** "Investigating the Role of Catalase Mimetic Cerium Oxide-based Nanozyme to Impart Protection to Hepatic Cells from Acatlasia," Society for Redox Biology and Medicine (SfRBM), Chicago, USA, November 2018
- **Vaishya, A.** "Interaction of Essential Climate Variables and Marine Aerosols: Impact on Climate," Physical Research Laboratory, Ahmedabad, June 2019
- **Vaishya, A.** "Spatial and Altitudinal Contrast in Aerosol Radiative Properties across the Indo-Gangetic Plain," USRI Asia Pacific Radio Science Conference, New Delhi, March 2019
- **Vaishya, A.** "Vertical Structure of Optical and Radiative Effects of Aerosols across the IGP: East - West Contrast and Seasonality," 20<sup>th</sup> National Space Science Symposium 2019 (NSSS-2019), Pune, January 2019
- **Wright, S.** "The Manuscript Economy of Early Modern India," Seminar Series, Delhi University, Department of History, New Delhi, October 2018

## INVITED LECTURES

- **Bagchi, S.** "Can Clientelism be Democratized? A View from Indian elections," Department of Political Science, St. Francis College for Women, Hyderabad, January 2019
- **Cavale, K.** "Between Exclusion and Autonomy: The Mobility/Moorings Dialectic and the Reconstitution of Village Communities in the Tamil countryside," Dialogues @ IIT-GN, IIT Gandhinagar, March 2019
- **Deo, A.** "Ethnomusicology and Music Mapping," Workshop on 'Memory of Andhra People,' Chief Curator, Amaravathi, August 2018
- **Ghosal, R.** "Hormones and Pheromones in Elephants," Indian Institute of Science, Bangalore, June 2018
- **Ghosal, R.** "Chemical Signals in the Aquatic World," DST-SERB, School of Chemical Ecology, Centre for Ecological Sciences, Indian Institute of Science, Bangalore and National Center for Biological Sciences, Bangalore, July 2018
- **Ghosal, R.** "Understanding Animal Society: How and Why," St. Xaviers College, Ahmedabad, March 2019
- **Jain, N.** "Amyloids Structures as Biofilm Matrix Scaffolds," Microbiology course, Institute of Life Science, Nirma University, Ahmedabad, August 2018
- **Jain, N.** "The Bad side of a good bacteria: Biofilms in Neurodegeneration," Research Seminar series, IIS University, Jaipur, August 2018
- **Kumar, Apaar.** "Introduction to Western Philosophy," Manipal Centre for European Studies Immersion Program, Manipal Centre for European Studies, Manipal, August 2018
- **Kumar, Apaar.** "Kant on the Feeling of Existence: Considerations from Tetens and Feder," Ashoka University, Sonapat, April 2019
- **Kumar, A.** "Nanobiotechnology Scope and Application in Biological Sciences," Mehsana Urban Institute of Sciences, Ganpat University, Mehsana, October 2018
- **Kumar, A.** "Inactivation of Microorganisms and their Analysis: Current Activities," FCIPT, Institute of Plasma Research, Gandhinagar, July 2018
- **Mahadevia, D.** "History of urban commons - Ahmedabad," Vastu Shilpa International Habitat Studio, Vastu Shilpa Foundation, Ahmedabad, February 2019

- **Mahadevia, D.** "Inclusion of Street vendors in master plan- Towards People's Master Plan in Delhi," WEIGO and IGSSS, New Delhi, March 2019
- **Rajpurohit, S.** "Thermal Preference in Drosophila: It's Not that Simple," ISEB2: Indo-Swiss Meeting of Evolutionary Biology, Centre for Human Genetics, Bengaluru, December 2019
- **Rajpurohit, S.** "Seasonality and Eco-evolutionary Dynamics," H N B Garhwal University Campus Chauras/Birma Campus, Tehari, Uttarakhand, September 2019
- **Rajpurohit, S.** "Water Balance in Insects," H N B Garhwal University Campus Badshahithaul, Srinagar, Uttarakhand, September 2019
- **Rajpurohit, S.** "Impact and Risks to Ecosystem," Global Centre for Environment and Energy, Ahmedabad University, Ahmedabad, August 2019
- **Rajpurohit, S.** "Natural Variation, Laboratory Selection, and Genomics of Desiccation Tolerance in Drosophila," 3<sup>rd</sup> Bangalore School on Population Genetics and Evolution, International Centre for Theoretical Sciences-TIFR Bengaluru, March 2018
- **Ramnath, A.** "Engineering in India: A Brief History of an Aspirational Profession (1900-47)," Engineer's Day, Godrej Archives, Mumbai, September 2018
- **Ramnath, A.** "Session on Research in Business History as part of the Doctoral Summer School," IIM Calcutta, Kolkata, April 2019
- **Rangarajan, R.** "Modern Notions of the Initial State of the Universe," International Symposium on Creation without a Creator: Critical Perspectives on Hawking's God, Xavier Research Foundation at St. Xavier College, Ahmedabad, February 2019
- **Rao-Cavale, K.** "Between Exclusion and Autonomy: The Mobility / Moorings Dialectic in the Tamil Countryside," IIT Gandhinagar, March 2019









# SCHOOL OF ENGINEERING AND APPLIED SCIENCE

The School of Engineering and Applied Science is working to be a world-class engineering institution that provides multidisciplinary education to the innovators of tomorrow. At the School, both faculty and students pursue research and development in the social and industrial spheres, equipping themselves to solve the most complex challenges of their societies and communities. There is high emphasis on experiential learning with the introduction of an increasing number of ENABLE courses.

## Overview

During the last Academic year, four new faculty members, six new PhD students, and five new research engineers joined the Engineering School. The School had eight students in exchange with University of Valladolid. The course curriculum for the BTech programme in Computer Science and Engineering was designed which will be introduced in the academic year 2019-2020. Curriculum of all BTech Programmes were revised with Majors and Minors in sync with the new Undergraduate programme to be introduced throughout the University in 2019. Many courses from The National Program on Technology Enhanced Learning (NPTEL) Online certification were also included in the curriculum in 2018-19.

The Engineering School workshops were redesigned and new sets of experiments (hands-on, hardware type) were developed for the Metrology Laboratory. The School also initiated the designing of an Innovation Center and collaborated with industry leads like SAC (ISRO), ATIRA, Industries – Arvind Ltd., SLTL, Inspiron Ltd. to encourage project-based learning in the campus.

Engineering students got opportunities to learn beyond the classroom by participating in conferences, workshops and seminars organised at the School, some of which were national events.

## Programmes

- Doctoral Programme in Information and Communication Technology
- Doctoral Programme in Chemical Engineering
- Master of Technology in Computer Science and Engineering with specialisation in Data Science and Analytics
- Bachelor of Technology in Chemical Engineering
- Bachelor of Technology in Information and Communication Technology
- Bachelor of Technology in Mechanical Engineering

## Faculty Highlights



**Professor Ajay Karakoti** was awarded the prestigious NASI-Scopus Young Scientist Award 2018. He received the award at a ceremony on 21st November, 2018 from the Honourable Vice President of India, Shri M Venkaiah Naidu.



## Events

### **Inauguration of American Institute for Chemical Engineers (AIChE) Student Chapter, Ahmedabad University**

The School inaugurated the AIChE Student Chapter on 29th August 2018 with Dr Jaimin Vasa, President, Gujarat Chamber of Commerce & Industry and Dr Unnat Pandit, Head of Operations, Atal Innovation Mission, NITI Aayog as the speakers.

### **IEEE Xtreme 12.0**

The annual 24-hours coding competition 'IEEE Xtreme 12.0' was organised by Ahmedabad University Students' Branch of IEEE on 20-21<sup>st</sup> October 2018. The event was a global challenge for the IEEE student members to solve a set of programming problems. The Top 3 teams from the University's Students Branch of IEEE were-

1. SeasPhoenix- Smit Mandavia, Akash Tike, Shaunak Vyas (Ranks: India- 8<sup>th</sup>, Global-123)
2. KalaKhatta- Anshul Jethvani, Jay Modi, Meet Patel (Ranks: India- 9<sup>th</sup>, Global-131)
3. Barfi- Harsh Shah, Darshan Shah, Hardik Udeshi (Ranks: India- 30<sup>th</sup>, Global-279)

### **INGENIUM 2019**

Ingenium is the annual technological festival organised by Ahmedabad University. It celebrates the spirit of innovation and engineering solutions hosting a wide array of competitions and workshops. Ingenium was held from 15-17<sup>th</sup> March 2019 with its precursor workshops commencing from 6<sup>th</sup> January 2019. The festival is annually hosted at the School of Engineering and Applied Science with participation from institutions from across India. With over 3700 registrations in 29 unique technical events, Ingenium'19 was a continuation in the celebration of innovation.

## Workshops

### **Machine Learning using TensorFlow**

This 2-day long workshop focused on teaching about supervised learning, neural networks and certain deep learning applications. Students gained hands-on experience of these theories, with Tensorflow/Keras in Google Colab.

### **IoT with Data Science**

A workshop on Internet of Things was conducted by Mr Kevin Naik, aimed at understanding the fundamentals of programming on Raspberry PI microcontroller and Raspberry PI basics, LAMP server in Raspberry PI and Making an Android app to collect data and store it on cloud or server.

### **SolidWorks and ANSYS**

A workshop on SolidWorks, a Computer Aided Drawing application used for the modelling and 3D Design of various Mechanical components and ANSYS, a Simulation tool, was held for the students. The participants learned how to use this tool and had a hands on experience in making products with them.







## Student Activities And Achievements

### Students of Engineering School participated in Google Intern Connect

Seven students of School of Engineering and Applied Science, Ahmedabad University (Dharmik Bhayani, Aashka Parikh, Sanghavi Chaitya, Hardik Udeshi, Meet Patel, Charmi Chokshi and Mehul Prajapati) were invited for an event organised by Google for Technology Interns on 30<sup>th</sup> June 2018 at their Hyderabad and Mumbai offices. The objective was to get Tech interns to network with each other and learn more about the technology industry from some of Google's leaders.

**Anushree Rankawat** undertook Google Summer of Code 2018 at CERN-HSF for the project of "Generative Adversarial Networks for Particle Physics Applications." It was a Machine Learning/Deep Learning based project where she had to include the functionality of Generative Adversarial Networks (GANs) in their scientific software framework - ROOT.

## Placements

### SUMMER INTERNSHIP

37 students took up internship from the School out of which 9 MTech students were placed with ABB.

### HIGHER STUDIES

32 students of 2019 BTech batch secured admission to universities in US and Europe for graduate studies.

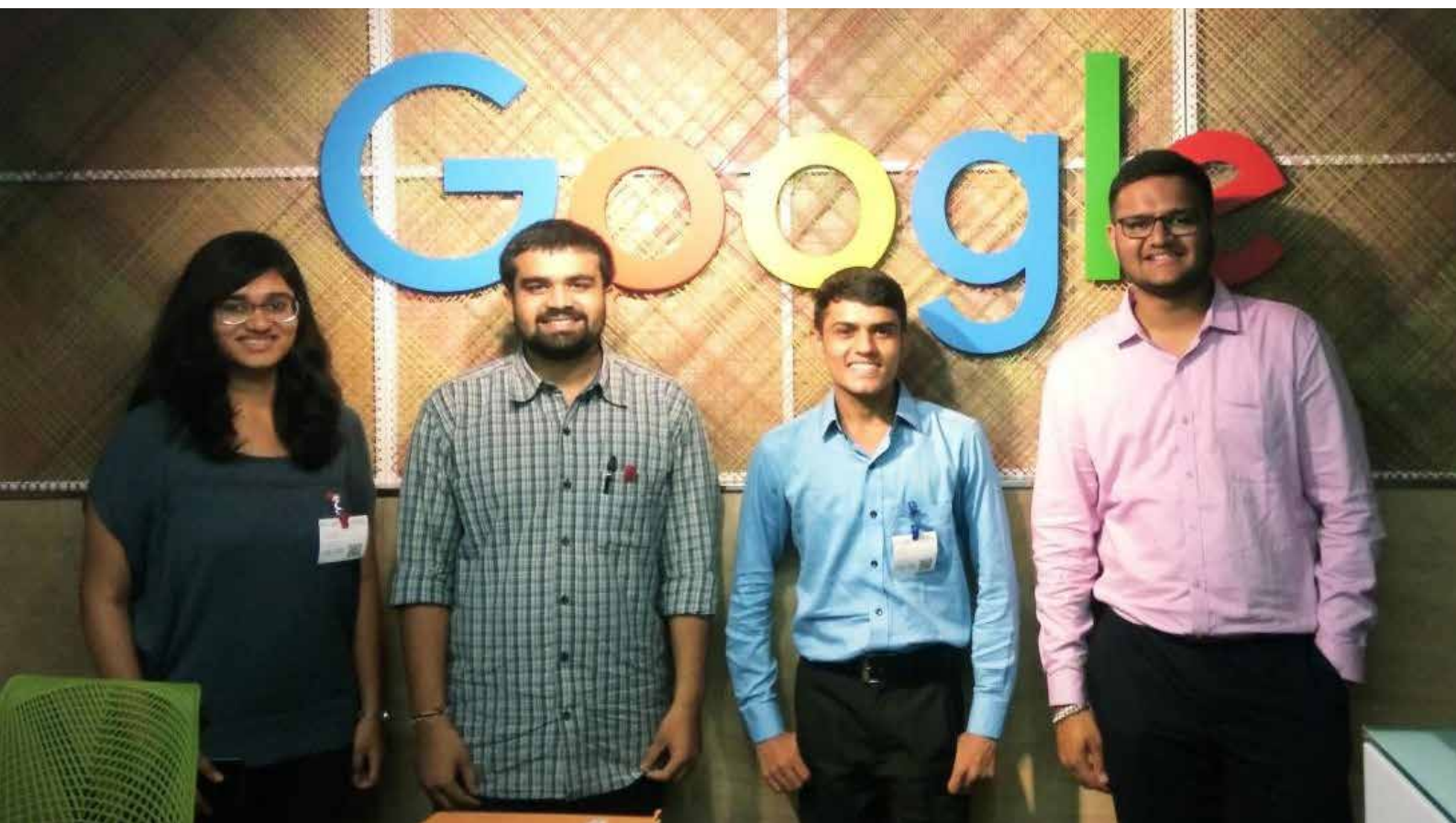
## Industry Engagement

The First Industry Meet of the School of Engineering and Applied Science, Ahmedabad University was organised on 16<sup>th</sup> March 2019. The meeting provided a useful platform for Industries and the School to understand the needs, competencies and capabilities of each other. Some of the industries that participated include Festo, Reliance, Zydus, Sahajanand Laser, and Thermax.

## Guest Lectures

**Dr Chaitanya Paruchuri**, Institute of Sound and Vibration Research at the University of Southampton, "The Reduction of Turbulence-Aerofoil Interaction Noise," 22<sup>nd</sup> August 2018.

**Mr Pankaj Gupta**, Senior Vice President, Infrastructure Leasing & Financial Services, GIFT, Gandhinagar, "Blockchain: Opportunities and Challenges," 29<sup>th</sup> August 2018.



## Conferences and Workshops

38<sup>th</sup> IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2018), 10<sup>th</sup> - 14<sup>th</sup> December, 2018

The 38<sup>th</sup> Foundations of Software Technology and Theoretical Computer Science conference (FSTTCS 2018) was organised at the School of Engineering and Applied Science, Ahmedabad University from 10-14<sup>th</sup> December 2018.

List of invited speakers comprised:

- Ola Svensson (EPFL, Lausanne, Switzerland)
- Santosh Vempala (Georgia Institute of Technology, USA)
- Rupak Majumdar (Max Planck Institute for Software Systems, Kaiserslautern, Germany)
- Aravinda Prasad Sistla (The University of Illinois, Chicago)

The conference hosted 120+ scholars ranging from 40+ international scholars, 40+ Indian faculty members and industry experts and students from India.

Faculty Development Programme on “Advanced 5G Wireless Communication: Performance Analysis and Monte-Carlo Simulations”

A Faculty Development Programme titled “Advanced 5G Wireless Communication: Performance Analysis and Monte-Carlo Simulations” was organised by the School of Engineering and Applied Science, Ahmedabad University as a part of DST-ASEAN and DST-UKIERI Research Project from 18-23<sup>rd</sup> June 2018. The programme intended to provide in-depth technical exposure of Cognitive Radio, Cyber-Physical Systems, Massive MIMO, Full Duplex Radio and their utilities in upcoming 5G technology to the faculty members from engineering colleges, research scholars in wireless communication, under-graduate and graduate students (14 faculty members, 7 PhD scholars, and 7 undergraduate students participated in the programme).

Speakers:

Professor Miguel Lopez-Benitez, University of Liverpool

Professor Saif K. Mohammad, IIT Delhi

Professor Mehul S. Raval, Ahmedabad University

Professor Dhaval Patel, Ahmedabad University





## Research Seminars

**Professor Aditi Singhal**, Ahmedabad University, "Nanocrystalline  $\text{Co}_3\text{-xNi}_x\text{O}_4$  with Low Ni Concentration: Enhanced Oxygen Evolution Activity Compared to  $\text{Co}_3\text{O}_4$ ," 10<sup>th</sup> September 2018

**Professor Dharmesh Varade**, Ahmedabad University, "Outstanding Stability of Aqueous Foams Made from Catanionic Surfactant Mixtures," 10<sup>th</sup> September 2018

**Professor Mehul S. Raval**, Ahmedabad University, "An Image Based Undetectable Steganographic Technique (ImUST)," 10<sup>th</sup> September 2018

**Professor Ratnik Gandhi**, Ahmedabad University, "Real-time Face Recognition in HD videos: Algorithms and Framework," 10<sup>th</sup> September 2018

**Professor S. Swaminathan**, IIT Delhi, "Cultural Imprints in the Scripts of the World," 26<sup>th</sup> September 2018

**Dr Saakshi Dhanekar**, IIT Delhi, "Nanomaterials Based Sensors for the Society," 4<sup>th</sup> October 2018

**Professor Sumit Tripathi**, College of Engineering, Pune, India, "Experimental Studies on Interfacial, Rheological and Transport Properties of High Internal Phase," 30<sup>th</sup> October 2018

**Dr Saakshi Dhanekar**, IIT Delhi, "Nano-sensors for the common man," 13<sup>th</sup> November 2018

**Dr Indrajit Shown**, Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan, "Artificial Photosynthesis: Metal Chalcogenide Nanomaterials as a Promising Photocatalyst for  $\text{CO}_2$  Reduction," 14<sup>th</sup> November 2018

**Professor Harshal Oza**, Ahmedabad University, "Quaternions in industrial robotics," 15<sup>th</sup> November 2018

**Dr Maryam Kaveshgar**, National Technical University of Ukraine, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine, "Navigation and Automatic Control System for Automobile Movement in Complex Conditions," 16<sup>th</sup> November 2018

**Professor Con Doolan**, University of New South Wales, Australia, "The production of Sound by Low and High Mach Number Flows," 16<sup>th</sup> November 2018

**Professor Chang Yoong Choon**, Universiti Tunku Abdul Rahman, Malaysia, "Recent Advances and Research Opportunities in Video Signal Processing: Visual Based Ambient Assisted Living," 21<sup>st</sup> November 2018

**Professor Nitin Banker**, Shiv Nadar University, Greater Noida, "Energy Efficiency Improvement of a Household Refrigerator by Incorporating a Phase Change Material-based Heat Exchanger," 22<sup>nd</sup> November 2018

**Dr Shashi Prabh**, ABB Research, Bangalore, "Quality of Service in Wireless Networks," 28<sup>th</sup> November 2018

**Professor Keyur D Joshi**, Queens University, Canada, "Flexible Machine Vision System for Small Parts Inspection based on a Hybrid SVM/ANN Approach," 28<sup>th</sup> November 2018

**Dr Ravindra Ranade**, Kagawa University, Japan, "On Some Simple Theoretical Research Concepts in Economic Science," 2<sup>nd</sup> January 2019

**Professor Dinesh Mohan**, IIT Delhi, "Thought Experiments in Moving around Cities," 30<sup>th</sup> January 2019

**Dr Ripudaman Singh**, IIT Guwahati, "A Disjoint Sets Based Framework to Enhance the Performance of Contention Based Synchronous MAC Protocols," 8<sup>th</sup> February 2019

**Dr Srinivas V Veeravalli**, IIT Delhi, "Models of 'Traditional' Science and Engineering in India Related To Water," 22<sup>nd</sup> February 2019

**Dr Rudrodip Majumdar**, IIT Bombay, "Dynamic Moving Boundary Characteristics of Two-phase ORC Heat-exchangers in Solar Thermal Applications," 25<sup>th</sup> February 2019

**Professor Pankesh Patel**, University of Maryland, USA, "Closing the Gap: Accelerating Application Development in the Internet of Things," 27<sup>th</sup> February 2019

**Professor Arnab Kumar Ray**, DAICT, Gandhinagar, "A White Hole under the Tap," 6<sup>th</sup> March 2019

**Dr Kaustubha Mohanty**, IIT Guwahati, "Microalgae based Biofuels and Biorefinery," 11<sup>th</sup> April 2019

## Grants

**Name:** Snigdha Khuntia

**Grant for:** Simultaneous removal of  $\text{NO}_x$  and  $\text{SO}_2$  from the flue gas: A low temperature ozone based process

**Grant Awarded by:** Science and Engineering Research Board, Department of Science and Technology, India

# Research at the School of Engineering and Applied Science

## STUDENT PRESENTATIONS

- **Ayush Panara, (2018).** "Uncovering the Super-Plant: Improving Domestic Water Reuse," IEEE Global Humanitarian Technology Conference (GHTC), at San Jose, California, USA, October 18 – 21

## BOOKS

- **Chaudhary, S. 2019,** "ઉપરવાસ વિશે (Upervas Vishe)," ISBN: 978-81-93734-88-9, Ahmedabad: Rangdwar Prakashan

## BOOK CHAPTERS

- **Chaudhary, S. & Kumar, V. (2018).** "Service Oriented Architecture and Spatial Data Integration for Agro Advisory Systems." In N. L. Sarda P. S. Acharya S. Sen (Eds.) Geospatial Infrastructure, Applications and Technologies, India Case Studies (185-199), Singapore: Springer Nature, ISBN 978-981-13-2329-4
- **Raval, M.S., Joshi, V.B. & Bhatt, J. (2018).** "Securing Biometrics Using Data Hiding Techniques." In S. Ramakrishnan (Ed.) Cryptographic and Information Security Approaches for Images and Videos (833 – 855), Boca Raton: CRC Press
- **Raval, M.S. (2018)** "Reversible Data Hiding: An Active Forensic Framework for Digital Images." In Siddhartha Bhattacharyya (Ed.) Intelligent Innovations in Multimedia Data Engineering and Management (116 – 140), IGI Global

## JOURNAL ARTICLES

- **Ahmed, A. T., López-Benítez, M., Selis, V., Patel, D. K., & Umebayashi, K. (2018).** Cooperative Estimation of Primary Traffic Under Imperfect Spectrum Sensing and Byzantine Attacks. IEEE Access, 6, 61651-61664
- **Al-Tahmeesschi, A., López-Benítez, M., Patel, D. K., Lehtomäki, J., & Umebayashi, K. (2018).** On the Sample Size for the Estimation of Primary Activity Statistics Based on Spectrum Sensing. IEEE Transactions on Cognitive Communications and Networking, 5 (1), 59-72
- **Kanth, A.P. & Singh, M. (2019).** Vibrational spectroscopy and SEM-EDX analysis of wall painted surfaces, Orchha Fort, India Journal of Archaeological Science Reports, 24, 434 -444
- **Kavaiya, S., Patel, D. K., Guan, Y. L., Sun, S., Chang, Y. C. & Lim, J. M. Y. (2019).** On the Energy Detection Performance of Arbitrarily Correlated Dual Antenna Receiver for Vehicular Communication. IEEE Communications Letters, 23 (7), 1186-1189
- **Modi, K. J., Garg, S. & Chaudhary, S. (2019).** An Integrated Framework for RESTful Web Services

Using Linked Open Data, International Journal of Grid and High Performance Computing, 11 (2), 24-49 ISSN: 1938-0259, DOI: 10.4018/IJGHPC.2019040102

- **Lakshmi, M.D., Rajput, G., Pandya, N. & Varade, D. (2018).** Enhanced Foamability and Foam Stability of Polyoxyethylene Cholesteryl Ether in Occurrence of Ionic Surfactants, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 551, 81-86
- **López-Benítez, M., Al-Tahmeesschi, A., Patel, D. K., Lehtomäki, J. & Umebayashi, K. (2018).** Estimation of Primary Channel Activity Statistics in Cognitive Radio Based on Periodic Spectrum Sensing Observations. IEEE Transactions on Wireless Communications, 18 (2), 983-996
- **Panyam, V. R., Kolla, V. S., Palawat, L., Sahu, A. & Banker, N. D. (2018).** Performance Comparison of a Vapor-Adsorption Cycle-Based Gas Turbine Inlet Air Cooling System for Different Refrigerants, International Journal of Air-conditioning and Refrigeration, 26 (1), 1850002-1850011
- **Prakash, S. & Kumar, S. (2018).** Pulse smearing and Profile Generation in CO<sub>2</sub> Laser Micromachining on PMMA via Raster Scanning, Journal of Manufacturing Processes, 31, 116-123
- **Saini, B., Khuntia, S. & Sinha, M. K. (2019).** Incorporation of Cross-linked Poly (AA-co-ACMO) Copolymer with pH Responsive and Hydrophilic Properties to Polysulfone Ultrafiltration Membrane for the Mitigation of Fouling Behaviour, 572, 184-197
- **Shah, K., Bhagat, S., Varade, D. & Singh, S. (2018).** Novel Synthesis of Polyoxyethylene Cholesteryl Ether Coated Fe-Pt nanodloys: A Multifunctional and Cytocompatible Bimetallic Alloy Exhibiting Intrinsic Chemical Catalysis and Biological Enzyme-like Activities. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 553, 50-57
- **Singhal, A., Bisht, A. & Irusta, S. (2018).** Enhanced Oxygen Evolution Activity of Co<sub>3</sub>-xNi<sub>x</sub>O<sub>4</sub> Compared to Co<sub>3</sub>O<sub>4</sub> by Low Ni doping, J. Electroanal. Chem., 823, 482-491
- **Vyas, D., Singhal, A. & Sharma, S. (2018).** One Step Rapid Synthesis of Mesoporous High Surface Area Sn<sub>1</sub>-xSb<sub>x</sub>O<sub>2</sub>: Electrochemical and Scanning Tunneling Spectroscopic Studies, J. Phys. Chem. Solids, 123, 355-363

## CONFERENCE PROCEEDINGS

- Chauhan, V., Joshi K.D. & Surgenor, B. (2019). Image Classification Using Deep neural Networks: Transfer Learning and the Handling of Unknown Images. Proceedings of the International Conference on Engineering Applications of Neural Networks. EANN 2019, Crete, Greece, May 24-26, 274 – 285
- Gajera, B., Patel, D., Soni, B. & López-Benitez, M. (2019). Experimental Performance Evaluation of Improved Energy Detection under Noise Uncertainty in Low SNR Regime. Proceedings of the 5<sup>th</sup> Wireless Communications and Networking Conference Workshop (WCNCW), Marrakech, Morocco, April 15-19, 1-6
- López-Benitez, M., Lehtomäki, J., Umebayashi K. & Patel, D. (2019). Accurate Noise Floor Calibration based on Modified Expectation Maximisation of Gaussian Mixture. Proceedings of the 17<sup>th</sup> IEEE Wireless Communications and Networking Conference (WNCN 2019), Marrakech, Morocco, April 15-19, 1-6
- López-Benitez, M. & Patel, D. (2019). Sigmoid Approximation to the Gaussian  $Q$ -function and its Applications to Spectrum Sensing Analysis. Proceedings of the 17<sup>th</sup> IEEE Wireless Communications and Networking Conference (WNCN 2019), Marrakech, Morocco, April 15-19, 1-5
- Patel, A. & Rabari, D. (2019). Optimisation of Multistage Extractor for the Butanol Separation from Aqueous Solution Using Ionic Liquids. Proceedings of the 8<sup>th</sup> International Congress on Ionic Liquids at Beijing, China, May 13-17, 462-462
- Patel, K., Patel, D., López-Benitez, M. & Chaudhary, S. (2018). Distribution-free Spectrum Sensing for Full Duplex Cognitive Radio. Proceedings of the IEEE 88<sup>th</sup> Vehicular Technology Conference (VTC 2018 Fall), Chicago, USA, August 27-30, 1-5
- Prajapati, H., Singh, K. & Oza, H. (2018). Dual Quaternion Based Finite Time Control with Application to Remote Dexterous Control of Articulated Robots. Proceedings of the 15<sup>th</sup> IEEE Annual India Conference (INDICON) 2018, Coimbatore, December 16-18, 26-31
- Prakash, S. (2019). An Investigation of Low Power CO<sub>2</sub> Laser Machining of GFRP. Proceedings of ICRACM 2019, IIT BHU, Varanasi, February 25-28, 41-42
- Prakash, S. (2019). Wettability of 3D Printed Polylactic Acid (PLA) Parts. Proceedings of the ICAMEN 2019, Manipal University, Jaipur, March 08-09, 77-77
- Raval, S., Patel, D. & López-Benitez, M. (2018). Performance Analysis of Improved Energy Detection I Full Duplex Non-Time Slotted Cognitive Radio. Proceedings of the IEEE 12<sup>th</sup> International Conference on Advanced Networks and Telecommunications Systems (ANTS 2018), Indore, December 16-19, 1-6
- Shah, P. & Chaudhary, S. (2018). Big Data Analytics Framework for Spatial Data. Proceedings of the Sixth Big Data Analytics (BDA 2018), Warangal, December 18-21, 250-265
- Singh, P. & Khuntia, S. (2019). Investigation of the Kinetics of Catalytic Ozone Reaction Using a Manganese Catalyst. Proceedings of the Royal Society of Chemistry, India West (RSC-IW) Symposium, Bardoli, February 22-23, 60-61
- Singh, K. & Oza, H. (2018). Second Order Sliding Mode Control Using Unit Dual-Quaternion Dynamics with Application to Robotics. Proceedings of the 15<sup>th</sup> International Workshop on Variable Structure Systems (VSS), Graz, Austria, July 09-11, 25-30
- Thakkar, O., Patel, D., Guan, Y., Sun, S., Chang, Y. & Mun-Yee Lim, J. (2019). On the Joint Impact of SU Mobility and PU Activity in Cognitive Vehicular Networks with Improved Energy Detection. Proceedings of the IEEE 89<sup>th</sup> Vehicular Technology Conference (VTC 2019 Spring), Kuala Lumpur, Malaysia, April 28-May 1, 1-6
- Thakkar, O., Patel, D., Raval, S. & López-Benitez M. (2018). Performance Analysis of Selection Diversity Combining Using Improved Energy Detection. Proceedings of the IEEE 15<sup>th</sup> India Council International Conference (INDOCON 2018), Coimbatore, December 16-18, 1-6

## CONFERENCE PRESENTATIONS

- Banker, N. "Influence of Couple Stress Lubricant on the Performance of Non-Recessed Geometrically Imperfect Journal Bearing," 6<sup>th</sup> International Conference on Production and Industrial Engineering (CPIE-2019), NIT Jalandhar, India, June 2019
- Banker, N., Pilligundla, R., Negi, H., Reddy, B.P.B. & Harender, S. "Thermodynamic Investigation of a Cogeneration System: A Combination of Concentrated PV/Thermal and an Adsorption Refrigeration System," 8<sup>th</sup> Global Conference on Global Warming (GCGW-2019), Doha, Qatar, April 2019
- Chaudhary, S. "Big Data Analytics Framework for Spatial Data," Sixth Big Data Analytics 2018 (BDA2018), NIT Warangal, December 2018
- Dahiya, A., Banker, N. D. & Bhattacharya, J. "Analysis of Compressed Air Energy Storage System," 12<sup>th</sup> International Conference on Thermal Engineering: Theory and Applications (ICTEA 2019), Gandhinagar, February 2019



- **Dandotiya, D. & Banker, N. D.** "Performance Enhancement of a Single Door Domestic Refrigerator by Incorporating Section Doors inside Refrigerated Space," 12<sup>th</sup> International Conference on Thermal Engineering: Theory and Applications (ICTEA 2019), Gandhinagar, February 2019
- **Derasari, R., Kakadiya, A., Mehta, M., Patel, S., Gandhi, R., Chaudhary, S. & Goswamy, R.** "A Service-Oriented Human Capital Management Recommendation Platform," 13<sup>th</sup> Annual IEEE International Systems Conference (SysCon2019), Orlando, USA, April 2019
- **Ganguli, A.** "Role of micro-separators using membranes in Desalination," International Conference on Desalination, InDA 2018, NIT Trichy, April 2018
- **Goswami, G.** "Extranatural Inflation Redux," COSMO 2018: The 22<sup>nd</sup> Annual International Conference on Particle Physics and Cosmology at Institute for Basic Science (IBS), Daejeon, South Korea, August 2018
- **Joshi, K.** "Image Classification Using Deep Neural Networks: Transfer Learning and the Handling of Unknown Images," 20<sup>th</sup> International Conference on Engineering Applications of Neural Networks, Crete, Greece, May 2019
- **Kanth, A. P. & Singh, M.** "The Formation of a Microbial Veil on the Decorative Mural Surfaces revealed by Multi-spectroscopic Examination," in a Conference on Preventive Conservation and Management of Wall Paintings in Historic Buildings held in IGNCA, New Delhi, October 2018
- **Kalam A., Al-Sehemi, A. G., Verma, D., Tripathi, B. & Kumar, M.** "Study of Transport and Recombination Mechanism in Hole Transporter Free Perovskite Solar Cell," Mater. Res. Express 5 105508, Boston, USA, November 2018
- **López-Benítez, M., Lehtomäki, J., Umebayashi, K., & Patel, D.** "Accurate Noise Floor Calibration based on Modified Expectation Maximisation of Gaussian Mixture," IEEE Wireless Communications and Networking Conference (WCNC), Marrakech, Morocco, April 2019
- **López-Benítez, M., & Patel, D.** "Sigmoid Approximation to the Gaussian  $Q$ -function and its Applications to Spectrum Sensing Analysis," IEEE Wireless Communications and Networking Conference (WCNC), Marrakech, Morocco, April 2019
- **Oza, H.** "Dual Quaternion Based Finite-Time Control with Application to Remote Dexterous Control of Articulated Robots," 15<sup>th</sup> IEEE India Council International Conference (INDICON) 2018, Coimbatore, December 2018
- **Prakash, S.** "An Investigation of Low Power CO<sub>2</sub> Laser Micro-Machining of Glass Fiber Reinforce Polymer Composite," ICRACM 2019, IIT BHU, Varanasi, February 2019
- **Prakash, S.** "An Investigation into Surface Milling Operation Accompanied by Peltier Chip Cooling Effect," STEM Conference, Vibrant Gujarat 2019, Gandhinagar, January 2019
- **Prakash, S.** "Wettability of 3D printed polylactic acid (PLA) parts," ICAMEN, Manipal University, Jaipur, March 2019
- **Rabari, D.** "Optimization of Multistage Extractor for the Separation of Butanol from Aqueous Solution using Ionic Liquids," 8<sup>th</sup> International Conference on Ionic Liquids, Beijing, China, May 2019
- **Shah, P. & Chaudhary, S.** "Big Data Analytics and Integration Platform for Agriculture," World Congress on Computers in Agriculture (AFITA/WCCA2018), IITB, India, October 2018
- **Shah, P. & Chaudhary, S.** "Big Data Analytics Framework for Spatial Data," Sixth International Conference on Big Data Analytics (BDA2018), NIT Warangal, India, December 2018
- **Singhai, R., Banker, N.D. & Harender, S.** "Experimental Investigation of Wind Loads Acting on the Heliostats of Solar Power Tower Plant and Its Variation with Varying Aspect Ratios," 8<sup>th</sup> Global Conference on Global Warming (GCGW-2019), Doha, Qatar, April 2019
- **Singh, K. & Oza, H.** "Second Order Sliding Mode Control using Unit Dual-quaternion Dynamics with Application to Robotic," in the Proceedings of the 15<sup>th</sup> International Workshop on Variable Structure Systems (VSS), Graz, Austria, July 2018
- **Singhai, R., Banker, ND. & Harender, S.** "Heliostats for Low Wind Area, 12<sup>th</sup> International Conference on Thermal Engineering: Theory and Applications," (ICTEA 2019), Gandhinagar, Gujarat, India, February 2019
- **Varade, D.** "Foaming Behaviour of the Mixed Surfactants System," 69<sup>th</sup> Divisional Meeting of Division of Colloid and Surface Chemistry, The Chemical Society of Japan, Tsukuba, Japan, September 2018
- **Varade, D.** "Formation Characterisation and Catalytic Application of Metallic Nanocrystals-Clay Nanocomposites," International Conference of Chemical Science in New Era, Udaipur India, October 2018

## INVITED LECTURES

- **Chaudhary, S.** “Research Challenges in Big Data Analytics, Natural Language Processing and Image Processing,” UGC – SAP National Seminar on “Digital Image Processing and Computer Vision,” Veer Narmad South Gujarat University, April 2019
- **Chaudhary, S.** “Blockchain Technology,” Workshop on Blockchain for Data Privacy and Security, CHARUSAT, April 2019
- **Chaudhary, S.** “Project Based Learning,” Faculty Development Program - Induction Programme, Gujarat Technology University, March 2019
- **Chaudhary, S.** “Can DBMS technologies play a Significant Role in Big Data Analytics?” Sixth Big Data Analytics 2018 (BDA2018), NIT, Warangal, December 2018
- **Chaudhary, S.** “Making Classroom Teaching Interactive and Interesting,” Faculty Orientation Programme, Nirma University, December 2018
- **Chaudhary, S.** “Geospatial Industry Trends and Prospects,” National Symposium on Industry-Academia Collaboration, CEPT, December 2018
- **Chaudhary, S.** “Blockchain Technology and its Applications,” Pandit Deendayal Petroleum University, October 2018
- **Chaudhary, S.** “Recent Advances of Machine Learning for Internet of Things and Data Analytics,” A D Patel Institute of Technology, Vallabh Vidyanagar, October 2018
- **Chaudhary, S.** “રોબોટ્સ: વજિાનની આ અદભુત દોલુગીની આજ અને આવતીકાલે,” Rupayatan Trust, Amreli, September 2018
- **Chaudhary, S.** “રોબોટ: આશીર્વાદ કે અભિશાપ,” Shri Bhadrakar Vidyadeepak, Gyan Vigyan Vyakhyan Shreni, Gujarat Vishwakosh Trust, July 2018
- **Chaudhary, S.** “Research Challenges in Cloud Computing,” Short Term Training Program (STTP), G H Patel College of Engineering and Technology, June 2018
- **Chaudhary, S.** “Research Proposal Writing,” Research Orientation Programme, Nirma University, June 2018
- **Goswami, G.** “Aspects of large field excursion,” Centre for High Energy Physics, Indian Institute of Science, Bengaluru, May 2019
- **Patel, D.** “New Paradigm for xG Wireless Network: Modelling of Physical Layer using “Expert system,” University of Liverpool, Liverpool – UK, December 2018
- **Patel, D.** “Future Research Opportunities in xG Wireless Network,” Faculty of Technology DDIT - Dharamsinh Desai University, Nadiyad, November 2018
- **Patel, D.** “Research Project Summary on Cognitive Radio Enabled Vehicular Cyber,” Nanyang Technological University – Singapore, February 2019
- **Ranade, A.** “Integrated Teaching,” STTP: Innovative and effective pedagogic practices, Nirma University, June 2019
- **Varade, D.** “Inorganic Layered Materials: New Opportunities for Nanomaterial Synthesis and Novel Multifunctional Catalyst Design,” Yokohama National University, Yokohama, Japan, September 2018
- **Varade, D.** “Highly Competent Clay Based Nanocomposite Materials for Catalytic Application,” Tokyo Institute of Technology, Tokyo, Japan, September 2018

# SCHOOL OF COMPUTER STUDIES

The School of Computer Studies was established in 1999 by the Ahmedabad Education Society. Seventeen batches of Bachelor of Computer Application (BCA) Programme, sixteen batches of Master of Computer Application (MCA) and two batches of Integrated MCA Programme have graduated with more than 2700 alumni members. As new intake in MCA and Integrated MCA Programmes has been discontinued, only two batches of Integrated MCA Programme remain at the University.

## Overview

Throughout the year, students have participated in various academic, sports and extracurricular events. Final year students of Integrated MCA have completed their internships in industry. Five students of third year Integrated MCA have been placed in Oracle. A student received a scholarship to participate in Grace Hopper Celebration. Two faculty members have completed their PhD in this academic year. Two faculty members have participated in the summer collaboratory at Olin College of Engineering, USA.

## Programme • Integrated Master of Computer Application

## Faculty Highlights



**Aditya Patel** worked as Principal Investigator for a Minor Research Project titled “Analysis, Design and Development of ICT based Model for Clean India Mission” funded by Gujarat Council on Science & Technology, DST, Government of Gujarat.



**Heena Timani** was nominated as a Chairperson of ACM - Women India Executive Council for 2019-2021.





## Events

### National level ACM Women Hackathon 2018

The ACM Ahmedabad Chapter along with the ACM Women's Chapter of the University, Oracle Academy and Tata Consultancy Services organised the third National level ACM Women Hackathon 2018 on 7-8<sup>th</sup> October 2018. The theme was "Sustainable Smart Society."

### Alumni Meet

The alumni meet of the Computer School was organised on 5<sup>th</sup> January 2019. The event was attended by more than 80 members with their families. Various awards such as Significant Contribution in Alumni, Young IT Achiever, Young Entrepreneur, were given to alumni.

## Students Activities and Achievements

**Shazad Babaycon**, of fourth year Integrated MCA, a member of the University Table Tennis team won Tournaments held at GNLU, PDP, Adani Institute, Khel Mahakumbh and Ellisbridge Club.

**Mokshesh Sanghvi**, of third year Integrated MCA participated in the event "Musical Instrument" in the University Youth Festival, 23<sup>rd</sup> January 2019.

**Ripal Sanghavi**, of fourth year Integrated MCA participated in ACM National level hackathon which was organised by ACM Ahmedabad Chapter on 7-8<sup>th</sup> October 2018. The team she was a part of, won a prize in the Innovative Idea category.

**Ripal Sanghavi**, of fourth year Integrated MCA won a scholarship to participate in the Grace Hopper Celebration India on 15-17<sup>th</sup> November 2018.

**Viraj Shah**, of fourth year Integrated MCA participated in the event "3D drawing" in the University Youth Festival and won the first prize.

**Chirag Tejura**, of third year Integrated MCA has played cricket at the State and National level. He is the captain of the University cricket team.

**Aishwariya Zalaria**, of third year Integrated MCA won tournaments that were held at IIMA, DAICT, Nirma, Adani Institute, GNLU and PDP as a part of the University Volleyball team.

## Workshops

### Microsoft Global Office 365 Developer Bootcamp, Ahmedabad 2018

SharePoint framework, Office 365 Add-ins, Bot framework, Microsoft Graph, Microsoft Teams, Outlook connectors and actionable messages were demonstrated and discussed in a workshop held on 6<sup>th</sup> October 2018, which was supported by Microsoft, Association for Computing Machinery (ACM) Ahmedabad Chapter and the local Microsoft Community.

### Workshop on Data Analytics

A national level workshop on Data Analytics was organised on 24<sup>th</sup> December 2018, in association with Department of Statistics, Gujarat University and the ACM Ahmedabad Chapter.

## Guest Lectures

**Nivedita Vani**, Project Manager, EClinical Works delivered an expert session on the topic "Requirement Analysis and Wire Frame Designing," 15<sup>th</sup> March 2019.

**Priyanka Valecha**, Jr Business Analyst, Biztech IT Consultancy conducted an expert session on "Wire frame Designs," 16<sup>th</sup> March 2019.



# Research at the School of Computer Studies

## JOURNAL ARTICLES

- **Naik, S. (2018).** Parsing Set of Queries to Obtain Parse Matrix for Table Index Evaluator and Recommender, The IUP Journal of Information Technology, 14 (30), 41-53
- **Patel, K. (2019).** Performance analysis of AES, DES and Blowfish cryptographic algorithms on Small and Large Data Files, International Journal of Information Technology, 11 (1), 1-7, DOI: 10.1007/s41870-018-0271-4
- **Thanawala, P. & Pareek, J. (2018).** MwText: Automatic Extraction of Multi-word Terms to Generate Compound Concepts within Ontology, International Journal of Information Technology, 10 (3), 303-311, DOI: 10.1007/s41870-018-0111-6
- **Vachharajani, V. & Pareek, J. (2019)** Framework to Approximate Label Matching for Automatic Assessment of Use – Case Diagram, International Journal of Distance Education Technologies (IJDET), 17 (3), 75-96, DOI: 10.4018/IJDET.2019070105

## CONFERENCE PRESENTATIONS

- **Gajjar, K. & Patel, M.** “A Matrix based approach for evaluation of vocal renditions in Hindustani Classical Music,” 5<sup>th</sup> International Conference on Computational Intelligence and Communication Technology, Ghaziabad, February 2019
- **Jambudi, T. & Gandhi, S.** “A New K-Means based Algorithm for Automatic Clustering and Outlier Discovery,” 3<sup>rd</sup> International Conference on ICT for Intelligent Systems (ICTIS), Ahmedabad, April 2018
- **Naik, S. & Gajjar, K.** “Applying ENgagement and Application Based Learning and Education (ENABLE) - A Student Centric Learning Pedagogy for Effective Learning of Database Management System,” Sharing Teaching-Learning Experience Conference 2019, IIT-BHU, Varanasi, March 2019
- **Raulji, J. & Saini, J.** “Sanskrit Lemmatizer for Improvisation of Morphological Analyzer,” International Conference on Emerging Technologies in Computer Engineering: Microservices in Big-Data Analytics, SKIT, Jaipur, February 2019
- **Raulji, J. & Saini, J.** “A Rule Based Architecture for Sanskrit to Gujarati Machine Translation System,” International Conference on Emerging Trends in Engineering, Science and Technology, Charusat, Changa, December 2018

- **Timani, H., Shah, P. & Joshi M.** “Predicting Success of the movie from YouTube Trailer Comments using Sentiment Analysis,” IEEE International India Com 2019 Conference organised by Bharati Vidyapeeth's Institute of Computer Applications and Management, Delhi, March 2019
- **Vegda, H. & Modi, N.** “Secure and Efficient Approach to Prevent Adhoc Network Attacks using Intrusion Detection System,” International Conference on Intelligent Computing and Control Systems (ICICCS 2018), Madurai, June 2018

## INVITED LECTURES

- **Patel, K.** “Introduction to Cryptography”, CSPathshala Gujarat State Pilot Project; ACM India and Govt. of Gujarat, Idar-Sabarkantha, September 2018
- **Patel, K.** “Cyber Security: Attacks and Prevention Mechanisms”, Ahmedabad University, Ahmedabad, March 2019
- **Patel, K.** “Open Source IT Tools for Education”, Teachers Training Programme, Dr Babasaheb Ambedkar Open University, A G Teachers College, Ahmedabad, May 2018
- **Timani, H.** “Research and Data Analysis with R language”, PhD/MPhil Course Work session, The School of Computer Science, Dr Babasaheb Ambedkar Open University, 'Jyotirmay' Parisar, Ahmedabad, December 2018



# CENTRE FOR HERITAGE MANAGEMENT

The Centre for Heritage Management (CHM) is an academic centre promoting critical inquiry on heritage matters along an interdisciplinary management approach to the broader heritage sector (including but not limited to: monuments, crafts, museums, natural resources, tourism, urban development and intangible heritage like languages, music, customs, performing arts, among others).

## Overview

The second batch of students in the Master's programme at the Centre for Heritage Management graduated, this academic year. They are engaged in diverse professional roles including a creative social enterprise. For the third-year in succession, CHM students have been selected for the highly competitive US ICOMOS International Exchange Programme.

The second edition of the International Conference on Heritage Management Education and Practice was organised in December 2018. The keynote speaker was Dr Webber Ndoro, the Director General of ICCROM (International Centre for the Study of Conservation of Cultural Property). The Aga Khan Trust for Culture (AKTC) sponsored a special session on AKTC's global historic cities programme along with an exhibition of selected projects from across the world in July 2017 in the Conference.

The Master's Programme received recognition at national and international fronts. UNESCO's Asia Pacific Regional Office in Bangkok invited the Centre to be represented in various experts meeting organised in Thailand, South Korea, China, and Singapore.

The initiative of a collaborative learning process within communities of Kutch that began in 2017 took a concrete shape this year with the establishment of the 'Heritage Learning Lab.' To kick start the collaboration, a training workshop was offered to selected fellows from participating villages in Kutch, followed by field-work in mapping

of heritage resources by CHM graduates under the guidance of faculty. The initiative of a collaborative learning process within communities of Kutch that began in 2017 took a concrete shape this year with the establishment of the 'Heritage Learning Lab.' To kick start the collaboration, a training workshop was offered to selected fellows from participating villages in Kutch, followed by field-work in mapping of heritage resources by CHM graduates under the guidance of faculty.

With institutional collaborations, our Master's students can now participate in exchange programmes or study abroad programmes at University of Kent & Athens University of Economics and Business, University of East Anglia (UK), and the Korean National University of Cultural Heritage. Students from these institutions can also come to Ahmedabad University as part of these partnerships. Other learning opportunities exist with University of Valladolid, Spain and the National Park Services USA (where a student has been going every year for practicum). Professor Shahul Ameen and Mr Vijay Ramchandani visited University of Applied Sciences in Nysa, Poland as part of a faculty exchange programme funded by Erasmus.

Dr Aditya Prakash Kanth from the National Museum Institute in New Delhi joined as Assistant Professor at the Centre. The Centre carried out a consulting project for the Rail Vikas Nigam Limited on possible ways of preserving the lost heritage of small railway stations at various locations in Gujarat.

## Programme

- Master of Management Studies in Heritage Management

## Faculty Highlights



**Neel Kamal Chapagain** completed his tenure as a visiting fellow at the UNESCO Category 2 Centre on World Natural Heritage, located at the Wildlife Institute of India, Dehradun. UNESCO Bangkok invited him to lead a process of drafting reference academic learning outcomes for Heritage Management Programmes in the Asia Pacific region.

## Events

**2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management** was held from 14-16<sup>th</sup> December 2018.

**A Public Lecture on Heritage Management Practice – An Opportunity for Social Action'** by Gurmeet Sangha Rai, Director and Principal Conservation Architect, Cultural Resource Conservation Initiative (India) Pvt. Ltd., was held, on 6<sup>th</sup> March 2019.

## Students Activities and Achievements

**Nikhil Parashar**, a second-year student's paper on Comparative study of "Formal management system of Desert National Park, India and traditional management system of 'Bishnoi' community" was selected for the presentation at International Biodiversity Congress organised by the Wildlife Institute of India, Dehradun on 4-6<sup>th</sup> October 2018.

**Nikhil Parashar, Almeida Perciville, Saif Siddiqui, and Sukrit Sen**, four students of Heritage Management Centre participated at a Pan-India Seminar on "Urban Conservation + Development" on 16-17<sup>th</sup> August 2018 at the India Habitat Centre, Delhi, organised by the Aga Khan Trust for Culture.

**Sukrit Sen**, first-year student was selected to present his paper on the 'Role of Festivals in the Rejuvenation of Heritage: a Case of Durga Puja in Calcutta' at the International Conference organised by the Centre of Built Environment, Kolkata, 26-29<sup>th</sup> November 2018.

**Sukrit Sen** was selected to present a paper on 'Sustainable Conservation of the Temples of Bali Dewangunj, Arambagh, West Bengal' at the 2nd 'International Conference on Sindh Studies: Indus Valley Cultural Heritage - New perspectives and Challenges,' University of Sindh, Pakistan, 19-21<sup>st</sup> November 2018.

**Shalvi Suman**, first-year student was selected to present her research on the Sabarmati River through a series of videos along with Professor Sara Ahmed at Great Rivers Forum 2018, UNESCO, Wuhan, China, 25<sup>th</sup> October to 1<sup>st</sup> November 2018.

**Nikhil Parashar**, was selected for the 'Film Preservation & Restoration Workshop India (FPRWI) 2018,' Indian Council for Cultural Relations (ICCR), Kolkata, 15-22<sup>nd</sup> November 2018.







## Placements

All students were either placed in heritage organisations like the House of MG, a Heritage Hotel in Ahmedabad or the INTACH Heritage Academy or started their own ventures including a social enterprise and a heritage textile business.

## Workshops

### WORLD LIVING HERITAGE FESTIVAL

- The Centre was a partner in this year's World Living Heritage Festival in Udaipur organised by the Maharana of Mewar Charitable Trust. Four students- Chetan Dixit, Jyoti Shukla, Krishnapriya Panicker and Tanya Kewalramani also participated in the international conference and the workshop between 18-20<sup>th</sup> October 2018 at the City Palace Museum Complex, Udaipur

### WORKSHOP ON BIO-CULTURAL DOCUMENTATION FOR COMMUNITY MEMBERS FROM KUTCH

- A workshop on key concepts and documentation skills for preparing bio-cultural register was conducted at the Centre for Heritage Management, Ahmedabad University from 27-31<sup>st</sup> October 2018. The workshop was a part of a pilot initiative under the Heritage Learning Lab (HLL) at Ahmedabad University as well as the Setu Learning Lab (SLL)

## Field Visits/Immersion

The two-month long Practicum during the Summer Term allows students to understand the functioning of a professional organisation related to the area of their interest. This year, the organisations included ATREE-Sahjeevan at Kutch; Mumbai Magic; UNESCO C2C at Wildlife Institute of India, Dehradun; Rereeti, Bangalore and NCPTT at National Park Service, USA.

After completing the first semester in the Programme, Heritage Management students spend a week away in a new context as an Immersion experience to reflect on the learnings from the first semester. This year, the site chosen for Immersion was Polo forest at the border of Gujarat and Rajasthan.

As part of their second semester, students of Master's in Heritage Management programme were in Kutch for their week-long module on Indigenous Knowledge System. During their field visits spanning from west to east Kutch, students interacted with various communities including Fakirani Jats, Ahirs and Meghwals to learn about how these systems have evolved over time.



## Guest Lectures

**Tara Sharma**, Director of Jungwa Foundation, “Heritage Management Integrated Module,” 25-26<sup>th</sup> February 2019

**Rima Hooja**, Member of the Government of India’s National Monuments Authority, Director of the MSID India Program of Minnesota University (USA), and Managing Trustee of the Jaipur Virasat Foundation, “Heritage Management Integrated Module,” 27<sup>th</sup> February to 2<sup>nd</sup> March 2019

**Gurmeet Rai**, Director and Principal Conservation Architect of Cultural Resource Conservation Initiative (India) Pvt. Ltd., “Heritage Management Integrated Module,” 6-8<sup>th</sup> March 2019

**Shikha Jain**, Director of DRONAH and Chairperson, DRONAH Foundation spoke on “Heritage Management Integrated Module,” 13-14<sup>th</sup> March 2019

## Research at the Centre for Heritage Management

### STUDENT PRESENTATIONS

- **Ladia, B.** “Heritage Walks: Delimiting the Boundaries,” 2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management, Ahmedabad University, Ahmedabad, 15<sup>th</sup> December 2018
- **Maheshwari, A.** “Consequences of World Heritage Tag: A Case Study of Darjeeling –Himalayan Railways,” 2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management, Ahmedabad University, Ahmedabad, 15<sup>th</sup> December 2018
- **Mandoli, G.** “Impacts of Organised Interventions in the Textile Craft: The Case of Maheshwari Weaving,” 2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management, Ahmedabad University, Ahmedabad, 15<sup>th</sup> December 2018
- **Mittal, R.** “Regenerating the Eco-system of Organic Cotton: The Case of Kala Cotton in Kutch,” 2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management, Ahmedabad University, Ahmedabad, 15<sup>th</sup> December 2018
- **Pandey, R.** “Sense of Place and Place Attachment: Strategies for Inclusive Urban Heritage Management,” 2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management, Ahmedabad University, Ahmedabad, 15<sup>th</sup> December 2018

- **Pramanick, S.** “Borders to Lesser Boundaries: Difficult Heritage and Shared Identities in Post Partition India,” 2<sup>nd</sup> International Conference on Heritage Management Education and Practice: Developing Integrated Approaches & Expo of Best Practices in Integrated Heritage Management, Ahmedabad University, Ahmedabad, 15<sup>th</sup> December 2018

### BOOK CHAPTERS

- **Chapagain, N. & Tiwari, S. (2019).** “Challenges to the notion of authenticity in the context of temples in Kathmandu Valley, Nepa.” In Gamini Wijesuriya and Jonathan Sweet (Eds.) Revisiting Authenticity in the Asian Context - ICCROM-CHA Conservation Forum Series No. 2, (133-139)

### JOURNAL ARTICLES

- **Kanth, A.P. & Singh, M. (2019)** Vibrational spectroscopy and SEM-EDX analysis of wall painted surfaces, Orchha Fort, India. Journal of Archaeological Science: Reports, Elsevier, 24, 434 -444
- **Chapagain, N. (2018)** South Asian Approaches to Heritage and Conservation. Conversaciones Con, (6), 197-204

### CONFERENCE PRESENTATION

- **Chapagain, N.** “Conservation of Sacred Structures in Nepal and India,” 11<sup>th</sup> Biennial National Conference of Church Cultural Heritage Practitioners of the Philippines, Cebu City, Philippines, May 2019

## INVITED LECTURES

- **Chapagain, N.K.** “Professional Education for Integrated Heritage Management: Masters Degree in Heritage Management at Ahmedabad University,” UNESCO Bangkok Asia Pacific Experts Meeting on setting up Competency Frameworks for Cultural World Heritage Management, Bangkok, Thailand, June 2018
- **Chapagain, N.K.** “Embedding intangible cultural heritage in higher education for integrated heritage management,” UNESCO Bangkok and ICHCAP, International Forum on Tertiary Education for ICH Safeguarding, and 1st Networking Meeting of Tertiary Education Institutes in Asia Pacific Region, Seoul and Buyeo, South Korea, July 2018
- **Chapagain, N.K.**, Keynote Speaker, “Towards a pedagogy for integrating traditional knowledges in heritage management education,” 5th International Conference on Heritage Management, The Heritage Management Organisation, and Kent-Athens Masters Programme in Heritage Management, Athens, Greece, September 2018
- **Chapagain, N.K.** “Rethinking current tentative list of world heritage sites in Nepal through the lens of cultural landscapes,” International Symposium on Culture-Nature Journey, UNESCO Category 2 Centre on World Natural Heritage Management and Training, ICOMOS, IUCN, Dehradun, October 2018
- **Chapagain, N.K.** Plenary Speaker, “Documenting what is not supposed to be documented: Contradictions in Conservation of Living Heritage in Nepal,” 4<sup>th</sup> World Living Heritage Festival, Udaipur, October 2018
- **Chapagain, N.K.** “Opportunities of rethinking current tentative list of world heritage sites of Nepal”, International Symposium on Culture-Nature Journey, UNESCO Category 2 Centre at the Wildlife Institute of India, Dehradun, October 2018
- **Chapagain, N.K.** “Strengthening Higher Education for Cultural Heritage Management in the Asia Pacific Region,” UNESCO Expert Meeting, South-East University, Nanjing, China, November 2018
- **Chapagain, N.K.** “Overview of Heritage Discourses and Heritage Management Practices”, INTACH Heritage Academy, New Delhi, December 2018
- **Chapagain, N.K.** “Competency Frameworks based Learning Outcomes for Heritage Management Education in the ASia Pacific Region”, UNESCO Bangkok Experts Meeting on Strengthening Collaborations across Asian Universities for Cultural Heritage Management Education, National University of Singapore, Singapore, March 2019
- **Chapagain, N.K.** “Contextual Learning: Exploring a Multi-Level Pedagogy for ICH Education,” International Seminar on ICH Pedagogy in Higher Education: Status and Challenges in the Asia Pacific Region in reference to UNESCO’s Overall Results Framework, ICHCAP and UNESCO Bangkok National Museum of Korea, Seoul, South Korea, May 2019



# GLOBAL CENTRE FOR ENVIRONMENT AND ENERGY

Global Centre for Environment and Energy (GCEE) at Ahmedabad University fosters and pursues interdisciplinary research, and designs technological and social experiments related to climate change, energy and natural resources. The Centre's focus is to discover and address research needs at the interfaces of three vital global challenges - environment, energy and sustainability.

Areas of expertise at the Centre include, but are not limited to, assessing global climate change and its impacts, development pathways and long term scenarios for India, climate and energy policy, urban mitigation and adaptation strategies, low carbon technologies, aerosol modelling and environmental impact of aerosols.

The Centre hosts the Technical Support Unit of the Mitigation Working Group of the Intergovernmental Panel on Climate Change (IPCC) and works closely with members of the Centre for Environmental Policy, Imperial College London.

## Overview

In 2018-19, the Global Centre for Environment and Energy (GCEE) engaged in a diverse set of academic activities including conducting high quality impactful research, academic courses, seminars and outreach activities. In 2018, the Intergovernmental Panel on Climate Change (IPCC) produced a Special Report on 'Global Warming of 1.5°C' which was released in Incheon, Republic of Korea. Professors Priyadarshi Shukla and Minal Pathak are among the drafting authors of the report. Professor Minal Pathak and Professor Shukla are co-authors on a perspective paper accepted for publication in Nature Climate Change. The paper is an output of a global collaboration of 16 country research teams creating pathways to deeply reduce greenhouse gas emissions in their own countries.

Professor Pathak has been nominated as a member of the Scientific and Pedagogical Committee as a part of the Office for Climate Education in France.

## Events

The Centre hosted two major Conferences on climate change. The first conference was on 'Road to IPCC's Sixth Assessment Report in Delhi in partnership with the Council on Energy, Environment and Water, Delhi. The second Conference was on "Systems Transformations for Global Warming of 1.5°C" on 17<sup>th</sup> January 2019.

Professor Minal Pathak and Ms Renee van Diemen ( Scientist with IPCCs Technical Support Unit based at Imperial College London) visited Mahatma Gandhi International School on 18th January 2019 and Shreyas School, Ahmedabad 8th January 2019 as part of the School Outreach programme and discussed recent findings from IPCCs Special Report on Global Warming of 1.5 C.

Professor Pathak and Professor Jim Skea from Imperial College London contributed to the Stepwell Podcast of Ahmedabad University and hosted by Indian Express on 16th February 2019 titled 'The people who are keeping our planet alive.'

The Centre organised a session on 'Models and Methods for Assessing Climate Change and Societal Future' under its 'Sustainability Seminar Series'. The speakers included Dr Subash Dhar from UNEP DTU, Copenhagen and Dr Vaibhav Chaturvedi from Council on Energy Environment and Water (CEEW), New Delhi

The Centre was one of the 25 which participated in the Sustainability Fair organised by Kiran C. Patel Centre for Sustainable Development at IIT Gandhinagar.





## Partners and Collaborations

The Centre is working in close collaboration with key national and international partners as listed below:

- Intergovernmental Panel on Climate Change
- Imperial College London
- Government of Gujarat –The Centre is providing advisory services to the Government of Gujarat (Gujarat Energy Development Agency and Gujarat Energy Research and Management Institute) on State Electric Vehicle Policy and other climate change initiatives
- Ministry of Environment Forests and Climate Change
- United Nations Environment Programme – Technical University of Denmark (UNEP-DTU) on collaborative publications related to climate change mitigation, specifically decarbonisation of transport and industry sectors

## Grants

**Name:** Minal Pathak, P R Shukla

**Grant for:** Research Sub-Agreement between Ahmedabad University and Imperial College London

**Grant Awarded by:** Imperial College London through Department for Business, Energy & Industrial Strategy (BEIS), UK

**Name:** Minal Pathak, Darshini Mahadevia

**Grant for:** Opportunities for Climate Mitigation and Sustainable Development (OPTIMISM)

**Grant Awarded by:** Natural Environment Research Council (NERC), UK, The Rockefeller Foundation and the Economic & Social Research Council (ESRC)

**Name:** P R Shukla

**Grant for:** Intergovernmental Panel on Climate Change (IPCC) and Ahmedabad University

**Grant Awarded by:** IPCC care of World Meteorological Organization

## Research at the Global Centre for Environment and Energy

### PUBLICATIONS

#### INTERNATIONAL REPORT

- Myles R. Allen (UK), Mustafa Babiker (Sudan), Yang Chen (China), Heleen de Coninck (Netherlands/EU), Sarah Connors (UK), Renée van Diemen (Netherlands), Opha Pauline Dube (Botswana), Kristie L. Ebi (USA), Francois Engelbrecht (South Africa), Marion Ferrat (UK/France), James Ford (UK/Canada), Piers Forster (UK), Sabine Fuss (Germany), Tania Guillén Bolaños (Germany/Nicaragua), Jordan Harold (UK), Ove Hoegh-Guldberg (Australia), Jean-Charles Hourcade (France), Daniel Huppmann (Austria), Daniela Jacob (Germany), Kejun Jiang (China), Tom Gabriel Johansen (Norway), Mikiko Kainuma (Japan), Kiane de Kleijne (Netherlands/EU), Elmar Kriegler (Germany), Debora Ley (Guatemala/Mexico), Diana Liverman (USA), Natalie Mahowald (USA), Valérie Masson-Delmotte (France), J. B. Robin Matthews (UK), Richard Millar (UK), Katja Mintenbeck (Germany), Angela Morelli (Norway/Italy), Wilfran Moufouma-Okia (France/Congo), Luis Mundaca (Sweden/Chile), Maike Nicolai (Germany), Chukwumerije Okereke (UK/Nigeria), **Minal Pathak (India)**, Antony Payne (UK), Roz Pidcock (UK), Anna Pirani (Italy), Elvira Poloczanska (UK/Australia), Hans-Otto Pörtner

(Germany), Aromar Revi (India), Keywan Riahi (Austria), Debra C. Roberts (South Africa), Joeri Rogelj (Austria/Belgium), Joyashree Roy (India), Sonia I. Seneviratne (Switzerland), **Priyadarshi R. Shukla (India)**, James Skea (UK), Raphael Slade (UK), Drew Shindell (USA), Chandni Singh (India), William Solecki (USA), Linda Steg (Netherlands), Michael Taylor (Jamaica), Petra Tschakert (Australia/Austria), Henri Waisman (France), Rachel Warren (UK), Panmao Zhai (China), Kirsten Zickfeld (Canada), Global Warming of 1.5°C: Summary for Policy Makers, Intergovernmental Panel on Climate Change, United Nations, 2018

- Anne-Hélène Prieur-Richard, Brenna Walsh, Marlies Craig, Megan L. Melamed, M'Lisa Colbert, **Minal Pathak**, Sarah Connors, Xuemei Bai, Aliyu Barau, Harriet Bulkeley, Helen Cleugh, Maurie Cohen, Sarah Colenbrander, David Dodman, Shobhakar Dhakal, Richard Dawson, Jessica Espey, Julie Greenwalt, Priya Kurian, Boram Lee, Lykke Leonardsen, Valerie Masson-Delmotte, Debashish Munshi, Andrew Okem, Gian C. Delgado Ramos, Roberto Sanchez Rodriguez, Debra Roberts, Cynthia Rosenzweig, Seth Schultz, Karen Seto, William Solecki, Maryke van Staden, Diana Ürge-Vorsatz, Global Research and Action Agenda on Cities and Climate Change, Intergovernmental Panel on Climate Change, United Nations, 2018

# Research at the Global Centre for Environment and Energy

## BOOK CHAPTERS

- **Pathak, M. & Mahadevia, D. (2018).** Urban Informality and Planning: Challenges to Mainstreaming Resilience in Indian Cities. In Y. Yamagata, & A. Sharifi, *Resilience-Oriented Urban Planning Theoretical and Empirical Insights* (44 - 66). Springer International Publishing. DOI: <https://doi.org/10.1007/978-3-319-75798-83>

## JOURNAL ARTICLES

- **Waisman, H., Bataille, C., Winkler, H., Jotzo, F., Shukla, P., Colombier, M., Buira, D., Criqui, P., Fischelick, M., Kainuma, M., La Rovere, E., Pye, S., Safonov, G., Siagian, U., Teng, F., Virdis, M. R., Williams, J., Young, S., Anandarajah, G., Boer, R., Cho, Y., Denis-Ryan, A., Dhar, S., Gaeta, M., Gesteira, C., Haley, B., Hourcade, J. C., Liu, Q., Lugovoy, O., Masui, T., Mathy, S., Oshiro, K., Parrado, R., Pathak, M., Potashnikov, V., Samadi, S., Sawyer, D., Spencer, T., Tovilla, J. & Trollip, H. (2019).** “A pathway design framework for national low greenhouse gas emission development strategies”, *Nature Climate Change*, 9(4), 261 – 268
- **Mittal, S., Ahlgren, E. O. & Shukla, P. R. (2019).** Future biogas resource potential in India: A bottom-up analysis. *Renewable Energy*, Elsevier BV, 141, 379–389, DOI: [10.1016/j.renene.2019.03.133](https://doi.org/10.1016/j.renene.2019.03.133)
- **Dhar, S., Pathak, M. & Shukla, P. R. (2018).** Transformation of India’s transport sector under global warming of 2 °C and 1.5 °C scenario. *Journal of Cleaner Production*, Elsevier BV, 172, 417–427, DOI: [10.1016/j.jclepro.2017.10.076](https://doi.org/10.1016/j.jclepro.2017.10.076)
- **Vishwanathan, S. S., Garg, A., Tiwari, V. & Shukla, P. R. (2018).** India in 2 °C and well below 2 °C worlds: Opportunities and challenges. *Carbon Management*, Informa UK Limited, 9(5), 459–479, DOI: [10.1080/17583004.2018.1476588](https://doi.org/10.1080/17583004.2018.1476588)

## CONFERENCE PRESENTATIONS

- **Pathak, M.** “Electric Vehicles in Indian cities: Moving from the margins to the mainstream”, International Conference on Systematizing and Upscaling Urban Solutions for Climate Change Mitigation, Mercator Research Institute on Global Commons and Climate Change in Berlin, 13-14<sup>th</sup> September 2018
- **Shukla, P.R.** “Introduction to the Emerging Mitigation Landscape”, Road to the IPCC Sixth Assessment Process, Ahmedabad, 15<sup>th</sup> January 2019
- **Shukla, P.R.** “Delivery of SR1.5 and Preparation for AR6”, Meeting with AR6 CLAs and LAs in Beijing, China, 18-20<sup>th</sup> June, 2018
- **Shukla, P.R.** “Driving Transformative Actions through Integrated and Innovative Approaches”,

Tenth International Forum for Sustainable Asia and the Pacific 2018 (ISAP2018), Pacifico Yokohama, 18-19<sup>th</sup> July, 2018

## INTERNATIONAL EVENTS/INVITED LECTURES

- **P.R. Shukla** participated in the IPCC Meeting on Special Report on 1.5 °C, Paris, France, March 2018.
- **P.R. Shukla**, Professor Minal Pathak, and Dr Suvadip Neogi participated in the IPCC Second Lead Author Meeting on Special Report on Climate Change and Land, Christchurch New Zealand, March 2018.
- **P.R. Shukla** (Co-Chair, IPCC Working Group III), Professor Minal Pathak and Dr Suvadip Neogi participated in the Third Lead Author Meeting in Dublin, Ireland, September 2018.
- **P.R. Shukla** (Co-Chair, IPCC Working Group III), Professor Minal Pathak and Dr Suvadip Neogi participated in the Fourth Lead Author Meeting for the forthcoming IPCC Special Report on Climate Change and Land, in Cali, Colombia, February 2019.
- **Minal Pathak**, ‘Electric Vehicles in Indian Cities: Moving from margins to mainstream’, International Conference on Systematizing and Upscaling Urban Solutions for Climate Change Mitigation conference, Berlin Germany, 13-14<sup>th</sup> September 2018.
- **P.R. Shukla**, Professor Minal Pathak and Dr Suvadip Neogi participated in Final Approval Meeting of the Special Report on Global Warming of 1.5°C in Incheon, South Korea, October 2018.
- **Minal Pathak**, ‘Panel on Climate Action in Small Countries and Regions’ at Edinburgh Centre for Carbon Innovation, University of Edinburgh, 3<sup>rd</sup> April 2019.
- **P.R. Shukla**, one of the key speakers on ‘the Work and Findings of the Intergovernmental Panel on Climate Change’ organised by IPCC in cooperation with the Ministry of Environment (Kingdom of Cambodia) in Siem Reap, Cambodia, 27-28<sup>th</sup> May 2019.



# VENTURESTUDIO

VentureStudio at Ahmedabad University helps inventors startup enterprises and commercialise their ideas. It is a platform that enables entrepreneurs to translate their innovation into viable business venture. Established in 2011, in collaboration with Stanford University, it assists innovative entrepreneurs by providing full service support. VentureStudio is an approved Technology Business Incubator (TBI) by NSTEDB, Department of Science and Technology and is an approved Centre for multiple National Initiative for Developing and Harnessing Innovation (NIDHI) schemes such as NIDHI Prayas for prototyping, NIDHI Entrepreneur-in-Residence (EIR) fellowship, NIDHI Seed Support Scheme (SSS) for commercialisation. It has established a modern Prototyping Lab and has received support from BIRAC, Department of Biotechnology, to set up a BioNest bioincubator. VentureStudio is also supports activities within the Government of Gujarat's Startup Policy.

VentureStudio currently incubates about 45 active ventures, with over 40% of them in early revenue stage. They are in diverse domains such as healthcare, defence, education, energy, environment, agriculture, consumer products, logistics, smart technologies etc.

## Overview

In 2018-19 VentureStudio continued to build its standing as a premier startup incubator in the region. Activities and all round development ranging from incubatee onboarding/ support, designing and launch of startup fellowship programme, building partnerships in the ecosystem, initiating efforts to build infrastructure and facilities while also promoting activities and events related to entrepreneurship for the benefit of the startups and the community were undertaken.

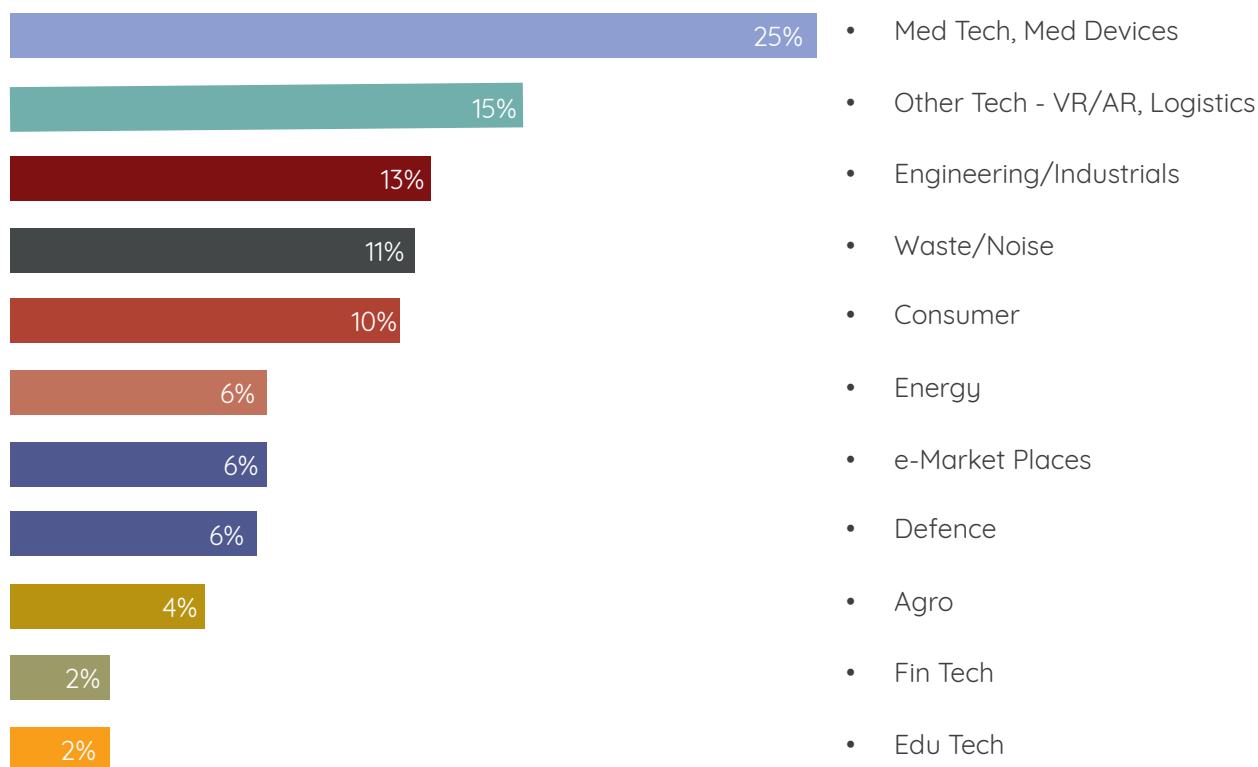
**Inaugurating the NIDHI Prayas Shala:** Engineering Prototyping Workshop for Product Innovators: A modern prototyping workshop the Prayas Shala has been built and operationalised.

**BioNest BioIncubator Construction Underway:** The University, supported by a grant from BIRAC, is building a bioincubator to serve the needs of entrepreneurs in Life Sciences.

**Enhanced Portfolio with a difference:** 14 startups were onboarded spanning multiple domains like defence, medical devices, environment (energy/ water), agro, consumer products and other areas.

**Launch of a revised VentureStudio Fellowship Programme:** An enhanced Startup Fellowship Programme with a cohort of 6 students and 6 startups.

## Startups Portfolio Distribution by Industry



## Stage of Startups



## Programme

- Venturestudio Startup Fellowship Programme

The VentureStudio Startup Fellowship Programme is a 12 credit programme, equivalent to an internship and a final year project, and of interest to those who want to pursue careers in Entrepreneurship, with a specific interest in translating their business idea into commercial reality and start their own enterprise. It is a 6 month long rigorous hands-on programme during which the student applies diverse concepts and tool kits across 10 modules to their own business idea/ innovation and takes it along the path of holistic enterprise development. The modules span the entire gamut of enterprise development spanning market research, market analysis, solution conceptualisation/ design and prototyping, solution validation, business model canvas mapping, mapping out go to market strategies and exposure to fund raising strategies, to name a few. The rigorous course will enable the journey through ideation, problem-solution fit determination, product-market fit determination and business model-market fit determination. The Fellowship is open to final year students of all Schools and Centres. Students admitted to the course are selected through a committee, which screens the interest of the student and the feasibility of the business idea.

## Events

### UK GUJARAT PARTNERSHIP SUMMIT

VentureStudio, Ahmedabad University in Collaboration with the Indian Professional Forum in UK, organized the UK Gujarat Partnership Summit which featured a roundtable of 20+ influential business leaders, entrepreneurs, investors and ecosystem champions from both UK and Gujarat ecosystems.

### Doctorpreneur – Transforming ideas to commercial reality. Seminar on innovations in Health Care

VentureStudio in collaboration with Management Medicos, a leading doctor organisation championing the adoption of the latest technology, and Kaizen Hospital organised an event tailored and targeted at doctors, to make them aware, understand the roadmap and available resources to translate their innovative ideas to commercial reality. The event attended by over 100 doctors featured sessions on current gaps in healthcare, the journey of a startup and the components and resources available such as business incubators, product development infrastructure and expertise, intellectual property and funding considerations.

### Enspiron: Inspiring Entrepreneur Speaker Series

VentureStudio launched Enspiron an inspiring Entrepreneur Speaker Series for the benefit of startups and students with a view to inspire entrepreneurship and help them understand the entrepreneurial journey first hand. The first such speaker series featured Mr Chirag Patel, Founder Net4Nuts and President TiE Ahmedabad on 29<sup>th</sup> January 2019.

### Hitcon Surat

VentureStudio partnered with Management Medicos, a high profile doctor group across Gujarat, for the annual HITCO (Healthcare Information Tech Conference) in Surat. More than 600 doctors attended the event. VentureStudio is the innovation partner of Management Medicos and has served as a platform for many doctors to take forward their ideas and innovations.

### Google TechStars Startup Weekend

TechStars Startup Weekend powered by Tech Stars was a 54-hour intense continuous weekend event centred on a theme during which groups of startup enthusiasts and experts from different walks of life meet, team up, work on their ideas and present in front of a jury who give input to the teams and help them shape their ideas further. The winners proceeded to the next level of competition nationally and then globally. The theme for the event at Ahmedabad University was Sustainable Development Goals. VentureStudio was the incubation partner for the programme which was held from 5<sup>th</sup> to 7<sup>th</sup> October 2018.



## Workshops

### Market Research: An Overview

Professor Jinal Parikh, Ahmedabad University

### Market Research: Opportunity Identification and Solution Development

Mr T S Mohan Krishnan, Marketing Researcher and Consultant

### Application of Data Analytics to Market Research

Professor Jinal Parikh, Ahmedabad University

### RISE with ANALYTICS

Mr Suchit Shah, COO CU-Rise Analytics, Dr Neetu Saraf, Analytics Head and Mr Brian Reed, Technology Head

### Intellectual Property Rights - A Holistic Perspective;

Mr. Anshul Saurashtri, Managing Associate, Advocate and Patent Attorney and Mr. Divyendu Verma Managing Associate, Advocate and Patent Attorney  
**A Holistic - Market, Design, Systems and Portfolio - Approach to Product Development**

Mr Sudhir Sanandan, CEO Invent India. Founder of Indian Inventors Association

### Law of Early Stage Transactions in a Start-up's Life.

Ms Vandana Chak, Law Office of Vandana Chak, New York

### Sell. The Only Way to Do Business.

Mr Achal Rangaswamy, Marketing & Sales Coach

## Guest Lecture

**Isabelle Dessureault**, Chief Strategy & Innovation Officer, Réseau Selection, Canadian Real Estate Group, "Startups & Innovation: Expectations from the Corporate and Investor Ecosystem - A Canadian and Global Perspective," 15<sup>th</sup> March 2019



# Startups Achievements

Startup Name	Award
<b>Zybra</b>	<ul style="list-style-type: none"> <li>Budget Friendly Accounting Software 2018 Award by Software Suggests</li> <li>Rising Star Award 2018 by Finances Online</li> <li>Winner @ Vibrant Gujarat Startup Summit 2018 – Fintech (Scaleup Category)</li> </ul>
<b>Biofics</b>	<ul style="list-style-type: none"> <li>Winner Empresaria Startup Summit 2019 Big Pitch 3.0</li> </ul>
<b>DiaHappy</b>	<ul style="list-style-type: none"> <li>Clinical Trial of 3 months with RSSDI (Research Society for the Study of Diabetes in India), where they have achieved an average HbA1c drop of 2.38 units and weight loss of 9.6 kgs along with drop in medication during the trial</li> </ul>
<b>Delta H</b>	<ul style="list-style-type: none"> <li>Demonstrated the product to the Hon'ble Defence Minister Nirmala Sitharaman and the Chief of Army Staff General Bipin Rawat during Army day 2019.</li> <li>Product was selected as an innovative solution for display/demonstration during Army Day, January 2019</li> </ul>
<b>Vendaxo</b>	<ul style="list-style-type: none"> <li>Ms Poonam Chaudhary selected as one of the Empower 2018 Winners by Zone Startups for top Women Entrepreneurs in India in partnership with Bombay Stock Exchange (BSE) and Government of Quebec, Canada</li> </ul>
<b>WideNeed Technologies</b>	<ul style="list-style-type: none"> <li>Selected as top 15 incubatees out of 160 to make it to Nexus pre-incubation program by U.S. Embassy and University of Texas, June, 2018</li> <li>Selected as top 15 to represent India in Leaders in Innovation program at London, UK, February 2019</li> <li>Won IIM-A SAP grant for social ventures, October 2018</li> </ul>
<b>Strauss Healthcare</b>	<ul style="list-style-type: none"> <li>Dr Aakash Doshi, was selected as an Acumen Fellow, 2018</li> </ul>
<b>Vrizm</b>	<ul style="list-style-type: none"> <li>Recognised as Google Street View Trusted Agent and reached 3.6 million views,</li> <li>Awarded Innovative Product of Month (December 2018 and January 2019) by Amazon India</li> </ul>
<b>Prayogik Technologies</b>	<ul style="list-style-type: none"> <li>Raised INR 30L investment from GAIL in 2018</li> <li>Represented GAIL INDIA Startup in International Oil and Gas Exhibition 2019</li> </ul>
<b>Vox Analytics (ThyroApp)</b>	<ul style="list-style-type: none"> <li>Paper presented in STEM 2019 (under Vibrant Gujarat 2019, got selected for the second position under the category "Research and innovation in STEM".</li> <li>Applied for the patent in India and also registered trademark for the "Thyvox".</li> </ul>
<b>Maal E</b>	<ul style="list-style-type: none"> <li>1<sup>st</sup> Prize Agricultural Category in the Jharkhand Startup Drive in August 2018</li> </ul>
<b>Synersense</b>	<ul style="list-style-type: none"> <li>BIG grant from BIRAC from Department of Biotechnology (DBT), Government of India, 2019</li> <li>NIDHI-PRAYAS Grant Support from Department of Science and Technology (DST), Government of India, 2019</li> <li>Leaders in Innovation Fellows (LiF) program, Royal Academy of Engineering (RAE), Newton Fund from Government of UK 2019</li> <li>5<sup>th</sup> Cohort pre-incubation under IC2 Institute, The University of Texas at Austin and Nexus</li> <li>Startup Hub at American Center, US Embassy, New Delhi, 2018</li> </ul>
<b>StrautX</b>	<ul style="list-style-type: none"> <li>Royal Academy of Engineers Leaders Fellowship Program, London, February 2019</li> </ul>

# Startups Achievements

Startup Name	Award
YHonk	<ul style="list-style-type: none"> <li>Along with Indian patenting, YHonk filed for a patent in countries naming - the USA, Australia, EPO, Ghana, Uganda, Indonesia, Vietnam and Nigeria. Amongst these, recently, they have been granted the Nigeria patent.</li> <li>YHonk received Creative &amp; Inclusive Innovation Award (CRIIA) in Ahmedabad for being the most innovative social solution in 2019</li> </ul>
Heavy Equipments	<ul style="list-style-type: none"> <li>Top 10 Innovative Startups in Surat Smart City Summit</li> </ul>
Solar Fuel	<ul style="list-style-type: none"> <li>Abhishek Shah was selected for the Massachusetts Institute of Technology (MIT) Innovation and Entrepreneurship Bootcamp, August 2018</li> </ul>
Cycling Cities	<ul style="list-style-type: none"> <li>Idea presented at cycling Conferences in Brazil in and Australia in June and October 2018 respectively</li> <li>Nikita Lalwani was chosen as the Bicycle Mayor of Baroda and first Bicycle Mayor from India for all her efforts in the Cycling Cities on ground initiatives, May 2017-April 2019</li> </ul>



# PHYSIOTHERAPY COLLEGE FOR THE VISUALLY IMPAIRED

The Physiotherapy College for the Visually Impaired runs a Diploma Programme in Physiotherapy on two campuses: one at the School for Deaf-Mute Society in Navrangpura and another at the Blind People Association, Vastrapur. The differently abled students are provided an in-depth education in physiotherapy and are trained to become computer literate. Their education is completely free, which includes tuition fees and the students are provided accommodation and food. The Programme ensures that the students become independent and are able to have a successful career and life. A Physiotherapy Clinic that provides treatment to people at nominal costs is also operational under the College.

## Overview

A new batch of 24 students were enrolled into both, the Blind People's Association as well as the School for Deaf-Mute Society. Tablets were procured as a study tool for first year students within the framework of a new government project. A number of our students participated and won accolades in the Gujarat Government's Khel Mahakumbh sports competition.

## Programme

- Diploma in Physiotherapy

## Students Achievements in Khel Mahakumbh

The students of the College actively participate in sports competitions organised for the differently abled and have won many laurels. Govind Lankhotara won the Gold in 100m sprint at the District level and Bronze at the State level. He also won a Long Jump Gold at the District level.

Student's Name	Year	Game	District Level	State Level
Mahendra Zala	1 <sup>st</sup> Year	Long Jump	Gold	Gold
Mahendra Zala	1 <sup>st</sup> Year	Short Put	Silver	-
Mahendra Zala	1 <sup>st</sup> Year	Disk Throw	Silver	-
Adnan Mamon	1 <sup>st</sup> Year	Short Put	Gold	-
Adnan Mamon	1 <sup>st</sup> Year	Disk Throw	Gold	-
Adnan Mamon	1 <sup>st</sup> Year	Javelin Throw	Silver	-
Mihir Thakkar	1 <sup>st</sup> Year	Chess	Gold	Gold
Milin Thakkar	1 <sup>st</sup> Year	Chess	Silver	-
Kamal Kotwal	1 <sup>st</sup> Year	Cricket	Gold	Gold
Saurabh Patel	2 <sup>nd</sup> Year	Short Put	Gold	-
Saurabh Patel	2 <sup>nd</sup> Year	Disk Throw	Gold	-
Saurabh Patel	2 <sup>nd</sup> Year	Long Jump	Silver	-
Jalpa Prajapati	2 <sup>nd</sup> Year	Short Put	Gold	-
Jalpa Prajapati	2 <sup>nd</sup> Year	Disk Throw	Gold	-
Jalpa Prajapati	2 <sup>nd</sup> Year	100 M Running	Silver	-
Karan Kalasva	3 <sup>rd</sup> Year	100 M Running	Gold	-
Karan Kalasva	3 <sup>rd</sup> Year	Long Jump	Silver	-
Karan Kalasva	3 <sup>rd</sup> Year	Javelin Throw	Bronze	-
Ravina Pagj	3 <sup>rd</sup> Year	Javelin Throw	Bronze	-



# CENTRE FOR LEARNING FUTURES

The Centre for Learning Futures (CLeF) designs and implements initiatives to support teaching and learning in the University. The Centre offers courses in academic reading and writing, and workshops in study skills. It also offers, through its Learning Initiatives, opportunities for curricular experimentation and pedagogic innovation as also platforms for integrating learner-centric technological solutions in higher education.

## Independent Study Period

Independent Study Period (ISP) 2018 courses were rooted in disciplines like Literature, Sociology, Design, Science, Technology, Heritage, Humanities and Languages, and more, cutting across areas and specialisations. Rather than following the regular curricular period format, these courses were offered as Studio Courses in an 8-hour day format over 15 consecutive days, enabling concentrated learning for students through block courses, studio-inspired experiential courses, perspective and skill building, along with field courses and innovative experiments in learning. 858 students registered for credit courses in the ISP 2018.

## ISP Expo

At the end of the 15 days of the ISP, on 23<sup>rd</sup> December 2018, students showcased their learnings through displays and demonstrations. Physical outputs in the form of posters, pictures, and products were put up in an exhibition which was visited by the parents, the University community and people from the city.

## Semester End Expo

At the end of each Semester, on 14<sup>th</sup> November 2018 and 10<sup>th</sup> April 2019, students from across the University participated and displayed posters, photographs, performances, 3-D models, working prototypes, coffee table books, computer applications, and presentations. Over 40 courses and 200 project outcomes were displayed.

## PEDAGOGY

Ahmedabad University has evolved a unique framework to facilitate learning by engaging with the context and environment and applying these concepts in real world problems. Students are empowered to learn on their own through various techniques like Project Based Learning, Flipped Classroom, Discovery Based Method etc. and the faculty acts as a facilitator.

Over the last year, ENABLE pedagogy has seen a surge in acceptance across the Schools amongst both faculty and students. 2018 saw as many as 19 courses being offered over two semesters with about 1200 students participating. ENABLE courses for 2018-19 included:

- Marketing Plan and Implementation
- Urban Informal Economy
- Brand Management
- Simulation Modelling
- Embedded System Design
- Internet of Things
- Electronic System Design
- Process Simulation
- Signal System
- Computer Organisation
- Linear Algebra
- City as Text
- Semantics of Happiness
- Critical Thinking and Argumentation
- People Analytics
- Urban Informal Economy
- Future of Work
- Quotidian of Gender
- Modelling Service Quality





## Learning Coalition

To advance the practice of project based learning and experiential learning courses, we have set up our own collaborative workshop, The Learning Coalition. The objectives of Learning Coalition is to organise a series of workshops covering aspects of teaching and learning (e.g., outlining learning objectives in a course) that need attention, discussion, and information.

This year the following Learning Coalitions were organised for our faculty from all schools.

- **Professor Geetha Narayanan**, Teaching and Learning at Srishti Institute of Art, 8<sup>th</sup> December 2018
- **Professor Tejaswini Niranjana**, Curricular Alignment Workshop: Aligning Course Outcomes to Major Outcomes, 18 – 20<sup>th</sup> July 2018
- **Professor Tejaswini Niranjana**, Curricular Alignment Workshop: Aligning Objectives, Outcomes, and Assessment, 3-5<sup>th</sup> Jan 2019

## University Access Programme

The University access programme is designed to enable school children to spend time at the University, interact with our faculty and staff and get acquainted with its learning ambience. Its goal is to motivate young people to aspire for higher education. 15 students belonging to the Rabari community were invited to spend a day at the University on 16<sup>th</sup> November 2019.

## Teaching Innovations

Apart from the ENABLE and ISP courses, our faculty attempt innovations in the classroom to increase engagement on a regular basis. Some notable innovations this year were:

### WHY AHMEDABAD VOTES?

Students were exposed to the basic practice of ethnography and field research methods of conducting studies during elections over a period of two months (10<sup>th</sup> March to 10<sup>th</sup> May, 2019). The idea was to ask students to closely observe election campaigns in 10 neighbourhoods where each student took pictures, made field notes and carried out small scale surveys with questions pertaining to the central question of 'Why do people vote?' This project was mentored by Professor Sarthak Bagchi from the School of Arts and Sciences.

### WOMEN'S HISTORY AND DANCE

This course examines women's history in India in the modern period, using dance to understand the social and cultural implications of mass movements and reform efforts. It exposed students to selections from the writings of nineteenth and twentieth century social reformers (and other primary sources from the period) and situate them in context with the aid of works by contemporary theorists and historians. Alongside academic engagement with the marginalisation and agency of Indian women, students explored the ideas they encounter in the course about gender and the construction of historical events via physical movement and choreography. Led by Professor Aparajita Basu and artists from Darpana Academy, they were guided to analyse, interpret and question the material they read and represent their views via the aesthetics of Bharatanatyam.

### LINEAR ALGEBRA, SIGNALS AND SYSTEMS, COMPUTER ORGANISATION

Ratnik Gandhi, Mehul S Raval, Pratik Gandhi of the School of Engineering Applied Science implemented an active learning experiment using a real-world project spanning multiple courses in a semester. The experiment of designing projects across courses continued over three years, with more than 200 student participants. Statistical analysis and student satisfaction surveys reveal that a project across courses increases the intrinsic motivation of a student while imparting domain knowledge and life skills.

### VISUALISATION

Harshal Oza and Jaina Mehta of the School of Engineering and Applied Science experimented with a novel flow of teaching was implemented: first, drawing three dimensional models and then deriving a two-dimensional one. This is not available in most regular textbooks and was inspired by industry practices of 3D-CAD-to-Manufacture model. Hence, the material taught in Computer Aided Manufacturing Lab and that taught in Visualisation seamlessly merges with this '3D to 2D' philosophy in the second year as well. Students were asked to sketch real life objects such as a perspective view of a room and mobile phone.



## PROBABILITY & RANDOM PROCESSES AND ECONOMICS

Students were encouraged to observe linkages between Probability and Random Processes and Economics as a part of MAT 202 - Probability and Random Processes and EPP 291 - Economics course. to explore the possibilities in interdisciplinary approaches to social sciences and engineering. Students were expected to pick a problem of uncertainty in the domain of Economics and apply their subject knowledge emerging from both courses, to solve a unique problem and derive inferences by incorporating Probabilistic Modelling, Coding and Inference Analysis.

## Learning Initiatives

### OLIN COLLABORATORY

Professors Saptam Patel, Aditya Vaishya, Karthik Rao-Cavale and Shashi Prabh from the University participated in the Collaboratory Summer Institute at Olin College of Engineering, MA, USA, from 10<sup>th</sup> June to 14<sup>th</sup> June 2019. Nineteen teams from eleven countries making over 87 members from the academic fraternity participated in this Collaboratory. The primary objective of the Collaboratory Summer Institute was to create a learning environment for the participating teams and to enable them to design student-centered learning pedagogy. The Ahmedabad University team's project centred around developing an interdisciplinary course on Artificial Intelligence. It borrowed the framework from the Foundation Programme 2019 Studios at the Ahmedabad University and tried to apply it to create a new Studio.

### PANEL DISCUSSION ON DESIGN FOR DEVELOPMENT

A Panel Discussion on "Design for Development in India, are we poised for it?" was organised during ISP on 8<sup>th</sup> December 2018 with Professor Pradyumna Vyas, Professor Geetha Narayanan and Professor Ranjan Malik and panelists and Professor Pankaj Chandra as the Moderator. This discussion focussed on incorporating design to usher social change that can be scaled up to a larger solution.

### WRITERS' STUDIO

Writers' Studio is an initiative to give detailed and personalised feedback on students' writing by trained professionals in journalism, communication and management. The Studio also helps faculty members in their research writing by providing feedback on their writing. Approximately 150 students from across availed the services of the Studio in the winter semester of 2019 alone. The Centre has a team of five professionals with experience in professional, journalistic and freelance writing who reviewed drafts of research papers and provided feedback to both students and teachers.

### MADHYAM GUJARATI, UTTAM ANGREZI

CLeF has partnered the Niranjana Bhagat Memorial Trust, Ahmedabad, to design, implement and monitor the project Madhyam Gujarati, Uttam Angrezi towards enhancing English language competencies in students from Gujarati-medium schools. About 15 classrooms across Gujarat have been selected to pilot the project. The project has come up with new resource material, exclusively produced by an expert team for this purpose.



# CAREER DEVELOPMENT CENTRE

The Career Development Centre helps the University build a strong and active university-industry interface by organising visits, industry speakers and jury for various students' activities, seminars and understanding industry needs that can be served by the university.

The Centre provides industry support to university stakeholders, by building relationships and nurturing existing relationships with industry stakeholders. It provides services, resources and experiences to its faculty and students which helps them in achieving their research, learning and career goals respectively. The Centre, in particular, co-ordinates opportunities for employers to engage and recruit students across Ahmedabad University.

## Activities

Career development is a process throughout the students' educational journey helping them assess their own career choices and assisting them in finding appropriate career opportunities. The Center works with industry throughout the year and organises various forms of engagement like Guest Lectures, CEO Talks, Workshops and Seminars with students and faculty.

The following activities are conducted by CDC to help students inspire their development:

1. Career Counselling, Guidance and Planning
2. Career Assessment and Testing
3. Career Development Workshops
  - Grooming and Etiquette
  - Communication
  - Resume Writing
  - Group Discussion and Personal Interview
  - Quantitative, Analytical and Logical Practice Test
  - Aptitude Practice Test
4. Industry Engagement (Guest Lecture, CEO Series, Seminars, Research Projects etc.)

## Placement Assistance (Summer and Final Placements)

During the academic year 2018-19, 345 students availed psychometric assessment and career counselling services compared to 103 last year. The Centre undertook training sessions in Aptitude Test, Resume writing, Mock interviews and Group discussion for all students registered with CDC as part of the preparation for their placement.

The Centre also organised workshops Public Speaking, Executive Presence and Image Management and panel discussion on Higher Education Abroad which was open to all the students. Scientific Writing workshop was organised specifically for Integrated MS students to help them write research reports.

## Placement at University

One third of the University's students join their family business or start their own ventures and about the same fraction pursue higher education. The year saw 105 students reach out to the Career Development Centre for help with placement and the Centre helped place 86 of them. Among the Class of 2018, 152 students opted for higher studies in various institutions in India and 76 went abroad to pursue higher studies.

## Workshops

Name of the Session	Programme	Facilitator	Organisation
Career Options, Opportunities & Challenges in Aerospace Industry	BTech	Mr Vipul Vachhani, Founder & CEO	Javiel Aerospace
Higher Studies Abroad	BTech	Mr Kamlesh Sajani, Director	IMS Learning
Work and Study in Japan	BTech	Mr Sushsant Chatterjee	SilverPeak Global
Guest Session - Basics of Hydraulics	BTech (Mech)	Ms Chitrangi Bhatt, Service DCIN/SSD	Bosch Rexroth
Guest Session for all iMSc students	Integrated MS	Dr Ripal Gharia, Asst. GM	Cliantha Research Ltd
Industry Trends in BioPharma	Integrated MS	Mr Arun Singh, Deputy General Manager	Zydus Cadila
Campus to Corporate	MBA	Ms Prajakta Basu, L&D Consultant	Somany Ceramics Ltd.
Immersion Session - The Future of Workspaces	MBA	Ms Kalgi Desai, Owner	5B Colab
Executive Presence and Image Management	MBA, BTech	Mr Rakesh Godhwani	IIM Bangalore
Rock your LinkedIn Profile	University Wide	Mr Rahul Kaul, Corporate Solutions	LinkedIn
Emerging Trends in Digital Marketing	University Wide	Mr Niraj Harlanika, Co-Founder	Jolly Food Fellow
ERP Consulting as a Career	University Wide	Mr Rushabh Shah, Principal Consultant	Evosys Global
Resume Building Workshop	University Wide	Ms Renu Misra	Ahmedabad University
Passion to Profession	University Wide	Mr Gaurav Dhobral	Teach For India
Higher Education Abroad	University Wide	Professors Ajay Karakoti, Mary Ann Chacko and Pallavi Vyas	Ahmedabad University
Higher Education Abroad	University Wide	Professors Harshal Oza, Anurag Lakhani, Karishma Dalal	Ahmedabad University
Public Speaking	University Wide	Professor Saptam Patel	Ahmedabad University
Skills and Competencies to make your mark in Consulting Organisation session	University Wide	Mr Sundeep Singh, Lead HR	Ernst and Young



## Summer Fellows 2019 Initiative

This year the University launched the Summer Fellows 2019 initiative, designed to select some of the finest minds in the University and get them placed in the best of the organisation in the country as interns. The internship experience is expected to be pivotal in the career development process of the selected Summer Fellows. As a part of this initiative, selected students undertook an eight week internship with leading organisations.

A total of 26 students were selected, out of which 23 participated in the initiative.

- 11 from BBA 2<sup>nd</sup> year
- 2 from BCom 2<sup>nd</sup> year
- 1 from Integrated MS 3<sup>rd</sup> year
- 8 from BTech (ICT) 3<sup>rd</sup> year
- 1 from BTech ( Mechanical) 3<sup>rd</sup> year

The selection of Summer Fellows was done through a rigorous internal selection process which included:

- Academic performance
- Psychometric assessment
- Two rounds of personal interview

All the students have been placed in some of the best companies in the country. Companies that hired the Summer Fellows are as follows:

**BCom, BBA** – ITC, KPMG, PWC, DDB Mudra Exide Life, Lakshmi Vilas Bank, 1Crowd, Vodafone

**Integrated MS** – Dr Reddys

**BTech** – Pidilite, BARC India, Mindtree, AllinCall



## Industries at the University

More than 175 companies engaged with Ahmedabad University to offer Projects, Internships and Jobs to our students. The indicative list is as follows:

- Act Infraport
- Adit Microsys
- Aditya Birla Fashion and Retail
- Agastya Foundation
- AllinCall
- Amul
- Anarock
- Arastu Systems
- Argusoft
- Arvind
- Asian Paints
- Befree
- Bennett Coleman
- Berger Paints
- Bosch Rexroth
- Brisil Technologies
- Business Standard
- BYJU's
- Byte Prophecy
- Cadila Pharmaceuticals
- Capital First
- Ceasefire Industries
- Cignex Datamatics
- Cimpres
- Codenation
- Cognizant
- CSIR
- CU Rise Analytics
- Cygnet
- Decathlon
- Delhivery
- Dineout
- Dobility
- Ecolibrium Energy
- Ecosmob Technologies
- Edelweiss Broking
- Edelweiss Tokio Life Insurance
- Edenred
- eInfochips
- EKart
- Elixir Foundation
- Elko EP
- Embibe
- Ernst & Young
- EronKan
- E-Squared
- Evosys
- EXL Service
- Extramarks Education
- ezDI
- Faurecia
- Ford India
- Fusion Informatics
- Galaxy Surfactants
- Gateway Group
- Glib.AI
- GNFC
- Godrej & Boyce
- GTPL Hathway
- Gulbrandsen
- Harsha Engineers
- Havells
- HDFC Bank
- HDFC Ltd.
- Hero FinCorp
- Hindustan Coca-Cola Beverages
- Hubilo
- ICICI Prudential
- India Mart
- IndusInd Bank
- Info Edge
- InfoStrech
- Inspiron Engineers
- IQM
- ISRO
- ITC
- iView Labs
- Jaro Education
- Jay Chemicals
- JK Tyre & Industries
- Kotak Mahindra Bank
- Live Health
- Madras Rubber Factory
- Mahindra & Mahindra
- Mancor Consulting
- Match My Talent
- Maxiss Rubbers
- Meditab
- Merkle Sokrati
- METRO Cash & Carry
- Nestle
- Nielsen
- Nirma
- Nividata
- O2H
- Ola Cabs
- OYO Rooms
- Perfetti Van Melle
- Photom
- Pidilite Industries
- Piramal Capital & Housing Finance
- PPAP Automotive
- Prax Info
- Qualitrol Corp
- Quicko
- Qviv Analytics
- Radio Mirchi
- Rangam Infotech
- RBD Engineers
- RBSA Advisors
- Reculta
- Reelo
- Reliance Money
- Reliance Retail
- RMS Financial Solution
- rtCamp
- Rubber Skill Development Council
- S&P Global
- Saathi Eco Innovations
- SBI
- Schoogle
- Secure Meters
- Shatayu Foundation
- Shriram Value
- Silvertouch Technologies
- SP Technolab
- Space-O-Tech
- Sundyota Naumandis
- Symphony
- Tatvic Analytica
- TCS
- Textron
- The National Indian Association (UK)
- Thomson Reuters
- TMSPL
- Tommy Hilfiger
- TOPPR
- Torrent Gas
- Torrent Pharmaceuticals
- Torrent Power
- Trident Creation
- Trigo
- Unipads
- Veeda Clinical Research
- Vodafone
- Volansys Technologies
- WIPRO
- Yes Bank
- Yes Foundation
- Yuva Unstoppable
- Zybra
- Zycus

# UNIVERSITY RESEARCH BOARD

Ahmedabad University has established the University Research Board or the URB to support and promote research by faculty, students and staff. The Board promotes research by recommending proposals for internal funding and examining proposals for submission to external sponsoring agencies. The Internal research funds are distributed as seed grants, start-up grants, or University challenge grants. URB also provides financial support to faculty for development of teaching material, participation in international conferences and recommends financial support for organising national and international conferences.

## Seed Grants

Jatav, S.	"Synthesis and characterization of magneto-rheological fluids," School of Engineering and Applied Science.
Kumar, A.	"Reconstruction of categories of Indian educational thoughts," School of Arts and Sciences.
Patel, P.	Book Project: "Securities and Exchange Board of India (SEBI)," Amrut Mody School of Management.
Shah, P. and Mehta, B.	"Role of online versus offline mediums used by women led start-ups in India," Amrut Mody School of Management.
Saxena, S. and Yadav, S.	"A study of secondary school drop-outs: reasons and way," Amrut Mody School of Management.
Pandya, P.	Book Project: "Under erasure: privatisation and humanities education in 21 <sup>st</sup> Century Gujarat," Amrut Mody School of Management.
Vyas, P. and Upadhyaya, A.	"Does information dissemination on the XY chromosome lead to a change in son seeking behaviour?" Amrut Mody School of Management.
Prakash, S.	"CO <sub>2</sub> laser cutting of thin glass sheets for microfluidic applications," School of Engineering and Applied Science.

## Start-Up Grants

Thakur, N.	"Regulation of epigenetic states by Smad7 (a crucial component of TGF $\beta$ signalling) and its role in cancer," School of Arts and Sciences.
Jain, N.	"Role of bacterial amyloids in early progression of neurodegenerative diseases like Parkinson's disease," School of Arts and Sciences.
Ghosal, R.	"Role of species-specific chemical signals in animal communication," School of Arts and Sciences.
Tanavde, V.	"Comparative analysis of microRNAs in smokeless tobacco habituated and non-habituated oral cancer patients and identification of potential early diagnostic markers," School of Arts and Sciences.



## Externally Sponsored Projects

Currently there are twenty eight on-going national and international sponsored projects with a total sanctioned budget of INR 1597.5 lakhs. Moreover, three projects with a total budget of INR 41.85 lakhs were completed during this academic year. In addition, nine sanctioned projects with a total budget of INR 360.76 lakhs (including an international collaborative project of USD\$70,000) have been approved and will commence in the next few months. The details are given below:

Recently Completed Projects				
Principal Investigator and Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start and End Date of Project
Sanjay Chaudhary and Mehul Raval	Developing Data Content Standards for Data Representation, Sharing and Interoperability (Soil, Forest and Surface Geological Map Data)	DST, N. Delhi, (NRDMS - NSDI)	INR 4,34,000	August 2018 - July 2018
Sanjay Chaudhary Mehul Raval	Developing Data Analytics Architecture Applications in Agriculture	DST, (NRDMS - NSDI)	INR 27,51,000	June 2017 - May 2019
Srisunder Subramaniam	Student Start-up Innovation Policy	Government of Gujarat	INR 10,00,000	September 2017 - March 2019
Sanctioned Projects				
Principal Investigator and Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start and End Date of Project
Darshini Mahadevia Minal Pathak	Opportunities for Climate Mitigation and Sustainable Development (OPTIMISM)	Natural Environment Research Council (NERC), UK, The Rockefeller Foundation and the Economic & Social Research Department of Biotechnology, Ministry of Science and Technology	INR 85,57,000	July 2019 - Mar 2020
Aditya Vaishya	To quantify the influence of relative humidity and aerosol composition on the net aerosol radiative Forcing	DST	INR 35,00,000	December 2018 - June 2020
Mary Ann Chacko Leya Mathew	Addressing Dissonances Between Education Research and Post-Market Reform Society in India	Spencer Foundation, United States of America	INR 33,88,000	June 2019 - May 2021
Mitaxi Mehta	An Iterated Symplectic Map for Understanding Hamiltonian Chaos	SERB	INR 6,60,000	May 2019 - April 2022

### Sanctioned Projects

Principal Investigator and Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start and End Date of Project
Leya Mathew	Shifting Science Identities and Appropriate Femininities at a Pharmacy College in India	US National Academy of Education and Spencer Foundation	INR 48,48,000	September 2019 - August 2021
Sanjay Singh and Rajesh Vasita (Central University, Gandhinagar)	Synthesis Of Cerium Oxide Nanoparticle Encapsulating Polymeric Nanofibres For Wound Healing Applications	ICMR	INR 45,00,000	2019-2022
Sanjay Singh	Development Of Catalytic Nanomaterials For Non-Invasive Imaging And Phenotyping Of Cancer Cells	ICMR	INR 30,00,000	2019-2022
Sanjay Singh	Continuous Synthesis Of Liposomes	BRNS	INR 32,00,000	2019-2022
Ratna Ghosal Jitendra Sundaray (ICAR, Bhubaneswar)	Ecological Assessment Of The Exotic Sailfin Catfishes In The Indian Freshwater Systems And Developing A Species-Specific Molecular Tool To Measure Their Detection In The Wild	SERB	INR 45,42,880	March 2019 - March 2022

### Ongoing Projects

Principal Investigator and Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start and End Date of Project
Aditi Singhal and Arnab Datta (IITGn)	Nanocrystalline Substituted Cobalt Based Metal Oxides For Oxygen Evolution Reaction: A Prerequisite For Photochemical Water Splitting	SERB, DST	INR 34,28,480	August 2017- August 2020
Ajay Karakoti Sanjay Singh	Systematic Design of Redox Potential Tunable Nanoparticles to Mimic the Function of Biological Enzymes for Mitigating the Diseases caused by Reactive Oxygen Species	SERB	INR 34,32,000	July 2016 - July 2019
Ashutosh Kumar	Advanced Nanotracers For Product Life Cycle Assessment And Product Monitoring	IIT Gandhinagar	INR 24,22,750	February 2018 - February 2021
Ashutosh Kumar	Nanotof: Toxicological Evaluation and Risk Assessment on Nanomaterials In Food	DBT	INR 29,96,400	July 2015 - December 2019

## Ongoing Projects

Principal Investigator and Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start and End Date of Project
Ashutosh Kumar Ajay Karakoti	Nanosensors for the Detection of Food Adulterants and Contaminants.	SERB	INR 39,83,200	August 2017 - August 2020
Dharmesh Varade	Solution Properties of Mixed Surfactant Systems	ITC Life Sciences & Technology Centre, Bangalore	INR 44,16,000	August 2017 - July 2020
Dharmesh Varade Ajay Karakoti	Superstable Responsive Aqueous Foam for Synthesis of Novel Biomimetic Materials	SERB	INR 38,17,000	January 2017 - January 2020
Dhaval Patel Miguel Lopez Benitez (UK)	Non-Parametric Smart Sensing Analytics based on Large Spectrum Data and Estimation of Channel Activity Statistics	DST-UKIERI	INR 29,68,500	June 2017 - May 2020
Dhaval Patel (Lead PI)-India Dr Guan Young Liang, (Lead PI) - Singapore Dr Chang Yoong Choon, (Lead PI) - Malaysia	Cognitive Radio Enabled Vehicular Cyber-Physical System for Urban Area	DST- ASEAN India Science and Technology Development Fund	INR 32,43,850	March 2018 - March 2021
Harshal Oza	Quaternion Based Leader-Follower Robust Tracking Control Of An Industrial Robot Using An Anthropomorphic Arm	SERB	INR 32,26,000	January 2017 - January 2020
Minal Pathak PR Shukla	Research Sub-Agreement between Ahmedabad University and Imperial College London	Imperial College London through Department for Business, Energy & Industrial Strategy (BEIS), UK	INR 1,08,70,000	January 2018 - March 2020
Sanjay Singh	Multi Target Antioxidant Nano Construct for prostate cancer treatment	Science and Engineering Research Board (SERB),	INR 28,33,000	May 2015 - May 2018
Ashutosh Kumar	Establishment of a facility for environmental risk assessment of chemicals and nano materials	Gujarat Institute of Chemical Technology (GICT)	INR 43,52,000	April 2012 - March 2016



## Ongoing Projects

Principal Investigator and Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start and End Date of Project
Ajay Karakoti	Establishment of Basic Lab for Research in Novel Engineered Materials	Gujarat Institute of Chemical Technology (GICT)	INR 85,00,000	April 2015 - March 2018
Aditya Patel	Analysis, Design and Development of ICT based model for Clean India Mission	Gujarat Council on Science and Technology(GCST)	INR 1,50,000	June 2016 - September 2019
Dhaval Patel Sanjay Chaudhary	Design and performance analysis of non-parametric detection algorithm for cognitive radio MIMO communication	Gujarat Council on Science and Technology (GUJCOST), Department of Science and Technology (DST), Government of Gujarat	INR 4,30,000	April 2016 - March 2018
Mehul Rawal	Description based person identification in unconstrained surveillance video	Board of Research in Nuclear Science (BNRS), Bhabha Atomic Research Centre, Department of Atomic Energy, Government of India	INR 20,92,000	May 2016 - April 2019
Ashutosh Kumar	DNA Biochip for on-site water pathogen detection including viability and anti-biotic resistance testing (WaterChip)	Indo-German Science and Technology Centre	INR 82,90,000	2016 - 2019
Srisunder Subramaniam	Sustainable Bio-Innovations BioNEST, Ahmedabad University	BIRAC	INR5,28,00,000	March 2017 - March 2020
Sara Ahmed	Living Waters Museum Project	Sara Ahmed Personal Funding	INR1,00,00,000	July 2018 - June 2019
Ritesh Shukla	Design and development of multiplex assay integrated nanodevice for rapid 'on field' identification of body fluids	Science and Engineering Research Board (SERB)	INR 42,71,000	July 2017 - July 2020
Vivek Tanavde	Identification of salivary Exosomes derived miRNA as a potential early diagnostic biomaker in oral cancer patients	GSBTM	INR 29,12,000	March 2019 - March 2021

## Ongoing Projects

Principal Investigator/ Co-investigator	Title of the Project	Funding Agency	Sanctioned Amount	Start/End Date of Project
Noopur Thakur	Crosstalk between TGF $\beta$ Signaling and The Epigenetic States In Driving Tumorigenesis	SERB /EMR	INR 44,54,312	November 2018 - October 2021
Snigdha Khuntia	Simultaneous Removal Of NOX And SO <sub>2</sub> From The Flue Gas: A Low Temperature Ozone Based Process	SERB	INR 43,29,600	Aug 2018 - Aug 2021
Subhash Rajpurohit	Ramanujan Fellowship	SERB	INR 38,00,000	May 2018 - May 2023
Subhash Rajpurohit	Cuticle Soft Or Hard: How Do Insects Balance Water?	SERB	INR 22,12,000	March 2019 - March 2022
P R Shukla Minal Pathak	Climate Change and Environment studies	Imperial college ,IPCC , Geneva	INR 33,23,000	January 2018 - July 2019
Neelkamal Chapagain	Promotional and Organizational activities for Heritage Conferences and Events under Erasmus Programme	University of Applied Sciences in NYSA for cooperation agreement for Erasmus	INR 1,92,000	2014 - 2019

## Ethics Committee

The code of ethics for conducting research by faculty, staff and students was approved in the Academic Council. The University has constituted an interim Ethics Committee. The Committee members are Professors Deepak Kunzru, Aditi Deo, Ashwin Kumar, Ratna Ghosal, Jaina Mehta, and Ekta Sharma.

## Research Working Papers

AMSOM-WP-2018-05-003, Shahul Ameen KT, Understanding Islam: Towards a New Interpretative Approach

AMSOM-WP-2018-06-004, Bijal Mehta, "PACE" A New "P" To Transform the Marketing Mix

AMSOM-WP-2018-06-005, Kunal Mankodi, Siddhartha Saxena, Alliance Motives in Small and Medium Scale Enterprises in Pharma Clusters

AMSOM-WP-2018-06-006, Abrar Ali Saiyed, Role of Network Capabilities in Internationalisation of New Ventures in Emerging Economies: A Contingent Effect of Industry Concentration and Liberalisation

AMSOM-WP-2018-11-002, Himani Baxi, Sonal Yadav and Mita Suthar, Impact of Demonetisation through the Lens of Financial Inclusion in Rural Locals

AMSOM-WP-2018-11-004, Himani Baxi, Analysis of Social Expenditure and Human Development Performance of Gujarat

## INFORMATION ON PATENTS

Name of the Patentee	Patent Number	Title of the Patent	Year of Award of patent
Ajay Karakoti, Sanjay Singh, Arsh Ismaili, Vaishwik Patel, Rahil Shah	201921018626	Process for Synthesis of Liposomes	Applied
Gajendra Rajut; Devi Sirisha Janni; Gayathri Subramanyam; Dharmesh Varade	201941009653	Thickener Free Surfactant Systems and Applications Thereof	13/03/2019
Niki Pandya, Devi Sirisha Janni; Gayathri Subramanyam; Dharmesh Varade	201941009212	Surfactant Systems and Methods of Preparations Thereof	08/03/2019
Ankit Purohit	Provisional in June 2018: 201821022131  Full Patent and PCT Application in June 2019: PCT/IB2019/054944	System and method for position and orientation tracking of multiple mobile devices	Applied
Vijay Mamtani	Provisional in Aug 2018: 201821030373 Full Application in Aug 2019: 201821030373	A thermoelectric module static generator DC power	Applied
Anshu Chittora and Purav Gandhi	Provisional in 2018-19: 201821020437	A method and a system for analysis of voice signals of an individual	Applied
Nandakishore Rao	Provisional Application: 201741015885 (Patent filed in 2018 & Provisional in 2017)	Automatic electronic PCB tester and defective component detector cum repairing machine	Applied
Satyen Engineer	Full Patent Application (India) - filed 2015: 3212/MUM/2015 (India) PCT filed in 2016: PCT/IN2016/050329 International patent application number - <ul style="list-style-type: none"> <li>• USA - 15/764,843</li> <li>• EPO - EP16816420.0</li> <li>• Australia - 2016333047</li> <li>• (2018) Indonesia - P00201803171</li> <li>• (2018) Vietnam - 1-2018-01868</li> <li>• (2018) ARIPO (Ghana and Uganda) AP/P/2018/010685</li> <li>• (2018) Nigeria - NG/PT/C/2018/2806</li> </ul>	An automated system to monitor and restrict honking	Nigeria awarded it in September 2018





Ahmedabad  
University



Ahmedabad  
University

# 9<sup>th</sup> ANNUAL CONVOCATION

November 9, 2019



# STUDENT LIFE

## The Nalanda

The Nalanda is a unique space, where students of Ahmedabad University come to engage in dialogue with deep thinkers invited from different fields. It allows for students and faculty members to be in conversation with experts who have thought about the topics at hand extensively.

Our first guest speaker for the third season of Nalanda in the year 2018-19 was **Esther David**, acclaimed author and artist, who spoke about her relationship with the city, experiences of travelling through the walled city of Ahmedabad, and the transformation of Ahmedabad over the years.

**Retired Chief Justice Ruma Pal**, the former judge of the Supreme Court of India, shared her thoughts about issues relating to the position of women and other minorities in the Constitution. She discussed her own journey as a woman in a field still largely dominated by men.

Renowned journalist and researcher, the author of 'Everybody loves a good drought' (1996), the Founder of People's Archive of Rural India, **Palagummi Sainath**, was another speaker at The Nalanda. He discussed the agrarian crisis in India, the forces leading up to it, the widening inequalities in our nation in the face of an epithetic public, ill-informed media and increasingly punitive policy regime.

**Anjou and Pascal Chazot** led the conversation on teaching, learning and their experience of setting up Mahatma Gandhi International School. They emphasised the need of an inclusive, humanistic and interdisciplinary education, and how it benefits the learners.

**Dr Amitabh Joshi**, a practicing poet in Urdu and Persian and also a professor of Evolutionary Biology, in the conversation titled 'The Art of Science and The Science of Art', described many similarities in Arts and Sciences, the benefits of interaction between the two and its personal joy in traversing across the landscape.

The Office of the Dean of Students (ODS) offers services and support to students and also organises student activities. The wellness vertical at the ODS known as Student Support, Engagement and Tutelage (SSETU) offers free medical consultation and primary health check up for students and employees, free Thalassemia screening for all graduating students, and free personal or academic counselling sessions in an environment of trust and confidentiality. Concerted efforts are made to sensitise the student population to social issues of grave concern like ragging, substance abuse, gender bias, traffic safety and sexual harassment by holding workshops and talks by experts. Voluntary blood donation camps are also held to make the students aware of their social responsibilities. Compliance and adherence to student related policies of the University and UGC are undertaken by ODS. The other vertical at ODS works towards the overall development of the youth through cultural and sports activities.

The University also enriches Student Life through several Co-Curricular activities that are managed by Schools, Centers, the Office of Residential Life and the Vice Chancellor's office. An example of such an activity is The Nalanda.



## Family Connect Initiative

The University grants Financial Aid to students on a merit-cum-means basis. The objective of the Family Connect Initiative is to build a relationship by establishing contact, either on phone or through a personal visit, with some of the families or parent(s) of students who receive such support. This enables the University to get direct feedback from students and families about the impact of the Financial Aid provided and reiterate its support to the students and their families.

This year, the Student Events Coordinator at ODS contacted families of 91 students, either over the phone or through a personal visit.

### ACTIVITIES of the Office of the Dean of Students

Category of Activity	Activity	Speaker	Date
Employee Awareness Workshop	Talk on Sexual Harassment Act	Kalpna Pareek Assistant Dean, Wellness	4 <sup>th</sup> April 2018
Youth Awareness Workshop	Sexual Harassment at Workplace	Professor Chirag Trivedi	6 <sup>th</sup> April 2018
Youth Awareness Workshop	Sexual Harassment at Workplace	Professor Chirag Trivedi	7 <sup>th</sup> April 2018
Health, Diet and Fitness	International Yoga Day	Ayushi Patel	21 <sup>st</sup> June 2018
Health Talk	Be Well to do Well	Dr Gayatri Raval	8 <sup>th</sup> August 2018
Gender Issues	Internal Complaints Committee - Student Group	Kalpna Pareek Assistant Dean, Wellness	22 <sup>nd</sup> August 2018
Health, Diet and Fitness	Annual Yoga Camp	Ayushi Patel	23 <sup>rd</sup> - 31 <sup>st</sup> August 2018
Emotional Wellness	Addiction to Social Media	John Victor (YourDOST)	22 <sup>nd</sup> August 2018
Emotional Wellness	Prevention of Suicide amongst Student Population	Mohan Sunil Kumar (YourDOST)	19 <sup>th</sup> September 2018
Grooming	Etiquette - Table Manners workshop	Kalpna Pareek Assistant Dean, Wellness	19 <sup>th</sup> September 2018
Women's Development Cell	Talk on Sexual Harassment - Me Too Movement	Dr Ranjana Harish	10 <sup>th</sup> October 2018
Enhancing Skills	Workshop on Time Management	Professor Anurag Lakhani	17 <sup>th</sup> October 2018
Anti-Substance Abuse	Clean Campus - No Drugs	Hariom Gandhi, NCB	23 <sup>rd</sup> October 2018
Emotional Wellness	Yoga & Stress Management	Ayushi Patel	16 <sup>th</sup> November 2018
Health, Diet and Fitness	Yoga & Meditation Camp	Shakuntala Pandya Sahaj Marg Foundation	26 <sup>th</sup> November - 7 <sup>th</sup> December 2018
Health, Diet and Fitness	Yoga & Meditation Camp	Ayushi Patel	10 <sup>th</sup> - 31 <sup>st</sup> December 2018



## ACTIVITIES

Category of Activity	Activity	Speaker	Date
Youth Awareness Workshop	Sexual Harassment Talk for students	Kalpana Pareek Assistant Dean, Wellness	29 <sup>th</sup> January 2019
Youth Awareness Workshop	Sexual Harassment Talk for students	Kalpana Pareek Assistant Dean, Wellness	6 <sup>th</sup> February 2019
Youth Awareness Workshop	Sexual Harassment Talk for students	Kalpana Pareek Assistant Dean, Wellness	6 <sup>th</sup> February 2019
Health - Training	Basic First Aid Training	Dr Gayatri Raval	6 <sup>th</sup> February 2019
Emotional Wellness	Introductory Session-Sound Healing Meditation	Mr Love Joshi	14 <sup>th</sup> February 2019
Gender Sensitisation	Self Defence Workshop	Tarak Solanki	27 <sup>th</sup> February 2019
Gender Parity	Financial Empowerment for Women	Devki Preeti Das	6 <sup>th</sup> March 2019
Emotional Wellness	Understanding Relationships	Ujjwal Yadav (YourDOST)	27 <sup>th</sup> March 2019

## Events

### YOUTH FESTIVAL

The Ahmedabad University's Youth Festival was organised from 23-26<sup>th</sup> January 2019. Over 400 students registered for individual events and more than 200 for team events. The six broad categories, Theatre, Music, Dance, Intellectual, Food and Fine Arts, had 27 different events. Students were encouraged to make interdisciplinary teams.

### YAMINI

Ahmedabad University in collaboration with The Society for the Promotion of Indian Classical Music and Culture Amongst Youth (SPICMACAY) hosted its 3<sup>rd</sup> edition of the all-night long Indian Music concert 'Yamini' on Saturday, 6<sup>th</sup> April 2019. The concert featured luminaries of north Indian classical music tradition - Sanjeev and Ashwani Shankar (Shehnai), Srimati Shruti Sadolikar (Hindustani Classical Vocals), Pandit Vishwa Mohan Bhatt (Mohan Veena), Pandit Kaivaalya Kumar (Hindustani Classical Vocals), The Manganiyars of Barmer (Folk Music of Rajasthan).

### ANAND MELA

The Social Service Forum of Ahmedabad University organized Anand Mela on 3<sup>rd</sup> March 2019. It is the day when the University hosts under-privileged children to its campus and ensures that they have a day well spent in learning new things through joyful activities. Anandmela is an effort by the University students to encourage the children to see education as fun and help them remain engaged with it. The event witnessed a footfall of around 1400 children from different Non-Governmental Organisations across Ahmedabad.

### UNIVERSITY GARBA

Ahmedabad University celebrated Navratri – the iconic festival of Gujarat with the University Garba on Wednesday, 17<sup>th</sup> October 2018. Over 1000 students, faculty and staff participated in the Garba Raas dance.



#### TED<sup>x</sup> AhmedabadUniversity

The first edition of TED<sup>x</sup> in the University was coordinated by The Management Club. The theme was Megapixels of Metamorphosis. The speakers at this event included:

- **Mr Subhash Ghai:** Film Director, Producer, Screenwriter and Educationist
- **Mr Shantanu Moitra:** Music Director, Music Composer, Writer, Traveller
- **Ms Meghana Erande Joshi:** Indian Actress and Voice Artist
- **Mr Manvendra Singh Gohil:** Prince of Rajpipla and Founder and Chairman of Lakshya Trust
- **Mr Partho Dasgupta:** CEO, Broadcast Audience Research Council (BARC)
- **Mr Ashish Kulkarni:** CEO of Reliance Animation and Chairman of FICCI for Animation and Gaming Forum
- **Ms Zakia Soman:** Women's Right Activist and Co-founder of Bharatiya Muslim Mahila Andolan
- **Mr Vinay Mahajan and Ms Charul Bharwada:** Musicians for a cause
- **Mr Sanjay Bhavsar and Ms Tula Patel:** Founders of NGO – Vishwagram





# Student Support, Engagement and Tutelage (SSETU) Wellness for All

SSETU handled 1745 walk-ins for Medical Consultations, 251 walk-ins for Personal Counselling, 132 General enquiries in 2018-19. For the same period, 892 first year students' health check and data was collated along with the handling of Thalassaemia screening for 606 students and blood donation of 354 units.

## MENTAL HEALTH

The University provides wellness services to its community of students, faculty and staff. Apart from personal counselling offered in an environment of complete trust and confidentiality, online counselling through a counselling portal is also offered to the students and employees. Nearly 250 personal counseling sessions were conducted by the Counsellor at SSETU. Online counseling registered nearly 748 counselling chats. To augment the services further, a panel of qualified mental health professionals has been taken on board and their services are available to the University community.

## CIRCLE OF CARE

In order to assist incoming Undergraduate students to transit smoothly from high school of the University, the SSETU Wellness Centre has instituted the Circle of Care programme. The idea of 'Circle of Care' is to ease the students' induction process into the University by providing them with a strong support system. A group of 12-14 students from various backgrounds and programmes form a Circle of Care along with a Faculty Advisor and a 'Mitr' or a friend, who is a senior University student. The Circle provides an initial group of peers and teachers whom new students can connect with, get guidance, seek help to tackle any initial hurdles and get advise on all aspect of University education and life.





# Student Clubs

This year four new clubs were launched and the Students Magazine Izhaar was also introduced. Details are as follows:

## DANCE CLUB

The Club provides opportunities to dance enthusiasts on campus and creates a pool of trained dancers for the University. The Club conducted various workshops throughout the year by some of the best and renowned choreographers. The activities included Bollywood Dance session on 22<sup>nd</sup> August 2018, Urban Dance session on 22<sup>nd</sup> September 2018, Garba workshop on 10<sup>th</sup> October 2018, Hook Step dance workshop on 14<sup>th</sup> November 2018 and a mega dance show Sangam 2.0 on 18<sup>th</sup> March 2018.

## ENTREPRENEURS CLUB

The Entrepreneurs Club encourages innovation, provides access to entrepreneurial resources & network with community of entrepreneurs, and help build an entrepreneurial mindset. The Club believes in furthering the understanding of new and small businesses. The newly launched Club kick started its activities with a three day Flea Market on the campus from 8-10<sup>th</sup> August 2018. The Club held an Expert session on 19<sup>th</sup> September 2018, Puzzle Project on 9<sup>th</sup> January 2019, the second round of three day Flea Market from 23-25<sup>th</sup> January 2019, a Movie Screening and discussion on 2<sup>nd</sup> February 2019 and Rural Market business plan on 6<sup>th</sup> March 2019.

## ENVIRONMENT CLUB

Environment Club, founded in 2018, is concerned about the environment and works to promote conservation efforts at the University. The Club also supports students interested in environmental advocacy and awareness. They organised their first Club activity on 22<sup>nd</sup> August 2018 with a discussion on "Is Development Leading to Destruction." They also held an awareness talk on Snakebite on 19<sup>th</sup> September 2018 and after Uttarayan they helped in cleaning the campus on 16<sup>th</sup> January 2019.

## FINE ARTS CLUB

Fine Arts Club is a platform for students to showcase their artistic capabilities and also to learn various new art-forms. They organised a three-day exhibition from 1-3<sup>rd</sup> August 2018 to showcase their handmade craft articles, a Glass painting workshop on 22<sup>nd</sup> August 2018, Wine Glass Candle Making workshop on 26<sup>th</sup> September 2018, Jewellery Making workshop on 3<sup>rd</sup> October 2018, Quilling workshop on 9<sup>th</sup> January 2019 and many more workshops all through the year. The Club members also provided artistic support for various University events like University Garba, Yamini etc.

## FITNESS CLUB

Fitness Club aims to enhance the physical as well as the mental capabilities of the student community. The activities organised by the Club include Aerobic workout on 29<sup>th</sup> July, Self Defense sessions on 29<sup>th</sup> July 2019 and 27<sup>th</sup> February 2019, three Zumba sessions on 22<sup>nd</sup> August 2018, 14<sup>th</sup> November 2019 and 9<sup>th</sup> January 2019 and a CrossFit session on 5<sup>th</sup> January 2019. The Club members also organised a Marathon on 30<sup>th</sup> September 2018, Duathlon on 3<sup>rd</sup> February 2019 and Colour Run on 17<sup>th</sup> March 2019 for students and employees of the University.

## FOOD CLUB

Food Club was started with an aim to provide a platform for every member to develop their culinary skills. The Club serves the interests of students with a passion for food and its various aspects like different cuisines, nutrition, and health benefits. The Club organised their first activity 'Surprise Event' on 8<sup>th</sup> August 2018. It organised a Baking workshop on 26<sup>th</sup> September 2018, Table Manners workshop on 10<sup>th</sup> October 2018 and Potluck Party on 9<sup>th</sup> March 2019. The Club members organise food stalls in the events organised by other Clubs.

## HERITAGE CLUB

Students of Heritage Management came together to bring forward the idea of a Heritage Club called "Sharitage" which is about creating a space for sharing our heritage, associated ideas and bringing diversity into discussions as well as our everyday lives. The Club has designed and organised Heritage Walks on 29<sup>th</sup> September 2018, 21<sup>st</sup> November 2018, 9<sup>th</sup> December 2018 and 14<sup>th</sup> April 2019. They organised heritage art workshop on Gond Art Bookmark on 6<sup>th</sup> February 2019, Pop-up Art on 27<sup>th</sup> February 2019 and "Mata ni Pachedi" on 17<sup>th</sup> April 2019. The Club members also organised an expert talk on 2<sup>nd</sup> February 2019 on the topic "Communicating History through Heritage".

## QUIZ CLUB

Quiz Club not only acts as a platform for the students to test their general knowledge but also to practice speed response. The Club started the year with a General Quiz on the topics related to business and technology which was held on 25<sup>th</sup> July 2018. Throughout the year, the Club organised various quiz events like Brand Quiz on 8<sup>th</sup> August 2018, BizTech Quiz on 22<sup>nd</sup> August 2018, Freshers Quiz on 3<sup>rd</sup> October 2018, Astronomy Quiz on 9<sup>th</sup> January 2019, Bollywood Quiz on 16<sup>th</sup> January 2019, Meme Quiz on 6<sup>th</sup> March 2019 and many more.

## LITERARY CLUB

Literary Club activities encourage spontaneity, articulation, imagination and public speaking skills among students. During the year the Club organised two Open Mic Sessions on 18<sup>th</sup> August 2018 and 13<sup>th</sup> April 2019, a Just a Minute (JAM) session on 29<sup>th</sup> August 2018, "Stories worth Sharing" on 24<sup>th</sup> October 2018 in which participants shared their personal stories or experience in the form of prose, poetry or spoken words. Debates were organized on 8<sup>th</sup> August 2018 and 19<sup>th</sup> January 2019, a "Dastaan-e-Tasveer" – the art of thinking spontaneously on 13<sup>th</sup> February 2019, Group Discussion on Pulwama Terror Attack on 6<sup>th</sup> March 2019 and Treasure Hunt on 13<sup>th</sup> March 2019.

## MUSIC CLUB

Music Club aims to bring skilled and enthusiastic musicians amongst the students to enjoy music, engage in learning of musical traits, and represent the University in musical events. The Club organised Antakshari on 30<sup>th</sup> July 2018, Karaoke sessions on 3<sup>rd</sup> October 2018 and 6<sup>th</sup> March 2019. Its members sang patriotic songs during University events like Independence Day and Republic Day celebrations. They had a lecture-demonstration session on 2<sup>nd</sup> January 2019 that was conducted by Kaushiki Chakraborty, a musical evening "Shaam-e-Khaas" on 19<sup>th</sup> January 2019, "Sangam" on 18<sup>th</sup> March 2019 and hosted a unique all night Indian Classical Music concert titled "Yamini" on 6<sup>th</sup> April 2019.

## PHOTOGRAPHY CLUB

Photography Club provides a platform for teaching and learning photography skills. The Club organised various photo walks in different parts of the city for club members. The Club organised a heritage sites photo walk on 5<sup>th</sup> August 2018, 12<sup>th</sup> August 2018, 7<sup>th</sup> October 2018 and 6<sup>th</sup> January 2019; Sundarvan Nature Photo walk on 29<sup>th</sup> September 2019, a shoot at the Sabarmati Ashram on Gandhi Jayanti and a visit to the only synagogue in Ahmedabad on 19<sup>th</sup> October 2018. They also organised Speed and Motion Photography on 26<sup>th</sup> September 2018, Bubble Photography on 24<sup>th</sup> October 2018, Steel Wool Photography on 16<sup>th</sup> November 2018 and Product Photography on 20<sup>th</sup> March 2019. The Club also organised a Street Photography competition on 6<sup>th</sup> March 2019.

## SOCIAL SERVICE FORUM

Social Service Forum (SSF) is an action-oriented community at the University that works on social awareness and engagement with the society. Club members have regularly worked with Old age home, Juvenile home, Orphanage etc. SSF members volunteered to ensure smooth execution of Thalassaemia Screening on 29<sup>th</sup> August 2018, 9<sup>th</sup> January 2019, 27<sup>th</sup> March 2019 and Blood Donation camps on 5<sup>th</sup> September 2018, 6<sup>th</sup> February 2019. They

also organised a collection desk at the University to support Kerala flood. The SSF members celebrated Joy of Giving from 3-8<sup>th</sup> October 2018, Uttarayan - festival of kites, and organised "Khushiyan ki Udaan" on 12<sup>th</sup> January 2019 and invited less privileged children to fly kites. SSF also organised talk on LGBTQ on 10<sup>th</sup> October 2018, talk by a historian Dr Lari Azad on 18<sup>th</sup> January 2019 and Meditation workshop on 6<sup>th</sup> April 2019. Anandmela, the Club's flagship event was held on 3<sup>rd</sup> March 2019.

## SPORTS CLUB

Sports Club works with the motto of promoting sportsmanship and teamwork amongst the students. Club organises various sports competitions throughout the year. The Club organised Dodge Ball, its first event of the year, on 8<sup>th</sup> August 2018, a Chess tournament on 22<sup>nd</sup> August 2018, Box Cricket League on 28<sup>th</sup> September 2018, Football League on 3<sup>rd</sup> October 2018, Carrom tournament on 10<sup>th</sup> October 2018 and the Frisbee tournament on 20<sup>th</sup> October 2018. They also organised a mega event, Survival of the Fittest, which was divided into four levels, i.e., Quiz, Treasure Hunt, Agility Test and the Finale. The event started on 22<sup>nd</sup> October and ended on 31<sup>st</sup> October 2018.

## STUDENTS MAGAZINE

The Students Magazine Club is a digital platform for students to share their ideas and creative writing. The magazine consists of 14 sections ranging from literary works and creative art to current affairs and University highlights and is published on a monthly basis. During Navratri, the Club launched a 9-day long social media event from 10-19<sup>th</sup> October 2018, "Ratiocination Garba," wherein it received different kinds of opinions, expressions and reasoning around the event. The members launched a website for their e-magazine on 19<sup>th</sup> January 2019. They organised event on 26<sup>th</sup> March 2019 to sensitise voters before the election.

## THEATRE CLUB

The Theatre Club provides a medium to the University students to nurture their skills in acting, direction, music, lighting, script writing etc. and learn to communicate through theatre. The Club members conducted a series of theatre workshops on 18<sup>th</sup> August 2018, 26<sup>th</sup> September 2018, 19<sup>th</sup> October 2018 and a month long practice session from December 2018 to January 2019. A session on Dialogue Delivery on 12<sup>th</sup> October 2018 and Script Writing on 20<sup>th</sup> March 2019 were also organised. The University team reached up to the finals of a state-level competition, Indian National Theatre, in January 2019.

## THE MANAGEMENT CLUB

The Management Club provides students with opportunities to refine their leadership and managerial skills by providing occasions for planning, organising and managing events throughout the year. The Club began its activities with Management Games on 8th August 2018, followed by an introductory talk on Indian Stock Markets on 22<sup>nd</sup> August 2018. It organised Stock Analysis workshop on 14<sup>th</sup> November 2018, Mock Stock on 9<sup>th</sup> January 2019, Auction process on 27<sup>th</sup> February 2019, and Case Analysis Battle on 13<sup>th</sup> March 2019. It organised industrial visits on 30<sup>th</sup> March 19 to Arvind Mills and Adani Wilmar on 13<sup>th</sup> April 2019. The Club members supported other Clubs in managing their internal activities and events. The Club members helped coordinate University events like Convocation, Foundation Day, and the Independent Study Period. The Club started its school outreach to help school students to understand the difference between education at a school and the university through management games.

## Sports Activities

The University encourages students to excel in sports and provides necessary facilities and equipment for maintaining physical fitness and natural abilities and interest in sports. Activities during the academic year included the following:

Event	Date	Category	Champion	Runner-Up
Chess	29 <sup>th</sup> August 2018	Intramural Boys	BBA/iMBA BBA/IMBA	BCom BCom
Basketball	6 <sup>th</sup> October 2018	Girls	BCom	BBA/IMBA
Volleyball	13 <sup>th</sup> October 2018	Boys Girls	SEAS BBA/IMBA	BBA/IMBA BCom
Handball	27 <sup>th</sup> October, 2018	Boys	SEAS	BBA/IMBA
Football	5 <sup>th</sup> January 2019	Boys	SEAS	BBA/IMBA
Kabaddi	12 <sup>th</sup> January 2019	Boys	SEAS	BBA/IMBA
Kho-Kho	19 <sup>th</sup> January , 2019	Boys Girls	BCom BCom	SEAS SEAS
Table Tennis	9 <sup>th</sup> March 2019	Boys Girls	BBA/IMBA BBA/IMBA	BCom BBA/IMBA
Cricket	27 <sup>th</sup> March 2019	Boys Girls	BBA/IMBA BBA/IMBA	SEAS SEAS
Badminton	30 <sup>th</sup> March 2019	Boys(Singles) Boys(Doubles) Girls(Singles)	BBA/IMBA BBA/IMBA BBA/IMBA	BCom BCom SCS
Athletics	13 <sup>th</sup> April 2019	Boys Girls	SEAS BCom	BCom SEAS



University students also participated in competitions at various universities like DAICT, Gujarat National Law University, Nirma University etc. Some major achievements are:

#### Inter-University Sports Tournament 2018-19

Organising Institution	Event	Competition Date	Category	Position
IIM Ahmedabad	Table Tennis	21 <sup>st</sup> September 2018	Boys	Runner-up
IIM Ahmedabad	Volleyball	21 <sup>st</sup> September 2018	Girls	Champion
DAICT Gandhinagar	Basketball	27 <sup>th</sup> October 2018	Girls	Runner-up
GNLU Gandhinagar	Volleyball	10 <sup>th</sup> February 2019	Girls	Runner-up
PDPU Gandhinagar	Table Tennis	18 <sup>th</sup> February 2019	Boys	Runner-up
Adani Institute of Infrastructure Management	Volleyball	27 <sup>th</sup> February 2019	Girls	Champion
Adani Institute of Infrastructure Management	Volleyball	27 <sup>th</sup> February 2019	Boys	Champion
Ahmedabad University	Cricket	27 <sup>th</sup> March 2019	Boys	Champion
Ahmedabad University	Volleyball	7 <sup>th</sup> April 2019	Girls	Runner-up
Ahmedabad University	Volleyball	7 <sup>th</sup> April 2019	Boys	Runner-up



# FACULTY AND STAFF

Employees	Faculty	Staff	Total
Amrut Mody School of Management	51	28	79
School of Engineering and Applied Science	27	19	46
School of Arts and Sciences	27	15	42
School of Computer Studies	10	5	15
Centre for Heritage Management	3	3	6
Centre for Learning Futures	3	2	5
Global Center for Environment and Energy	1	-	1
VentureStudio	-	7	7
School of Deaf and Mute	-	4	4
Physiotherapy College for the Visually Impaired	-	3	3
University Office	-	83	83
<b>Total</b>	<b>122</b>	<b>169</b>	<b>291</b>

## New Staff Appointments in 2018-19

Employees	Activity/Function
Abhinav Chaturvedi	Facilities and Services
Aditi Patel	Grant Projects
Aishwarya R Nair	Laboratory
Aishwarya Umrana	Office of Admissions and Financial Aid
Akash Sharma	Office of Admissions and Financial Aid
Amitava Gosh	Operations
Anik Patni	Communication
Anupam Onkar	Human Resource
Bhumi Shah	Centre for Learning Futures
Devangi Acharya	Accounts and Finance
Gowri Raju	Internal Communication, Media and Support
Hansa Sachdeva	Office of Admissions and Financial Aid
Harnish Gajjar	Executive Education
Hirak Acharya	International Affairs and Executive Education
Kapil Mittal	Office of Admissions and Financial Aid
GK Manjunath	Central Library
Mannu Das	Office of Admissions and Financial Aid
Mansi Rajnikant Ajmera	Office of Admissions and Financial Aid
Megha Mistry	Programme Office
Prachi Shah	Human Resource
Prakash Gawad	Workshop
Payal Vaswani	Laboratory
Qayyum Khan	Office of the Vice Chancellor
Rajat Garg	Office of Admissions and Financial Aid
Ritika Gupta	Human Resource
Sanjiv Kaushal	Campus Operations
Jignesh Singh	Office of Admissions and Financial Aid
Sumit Gupta	Office of Graduate Admissions
Trupti Parekh	Accounts and Finance
Vaishali Dhamecha	Workshop
Vanaja Shankar	Office of Dean of Undergraduate College
Vikrant Jain	Career Development Cell
Yogesh Shah	Bookstore

## LIST OF FACULTY

### AMRUT MODY SCHOOL OF MANAGEMENT

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**Abrar Ali Saiyed**  
Assistant Professor

**Amrita Bihani**  
Senior Lecturer

**Aparajith Ramnath**  
Assistant Professor

**Aravind Panicker**  
Adjunct Faculty

**AVK Mohan**  
Professor of Practice of  
Management

**Bhaktida Trivedi**  
Assistant Professor

**Bibek Banerjee**  
Senior Dean, Strategic Initiatives  
and Planning

**Bijal Mehta**  
Assistant Professor

**Binny Rawat**  
Assistant Lecturer

**C. Rangarajan**  
Distinguished University  
Professor

**Chirag Trivedi**  
Assistant Professor

**Darshana Padia**  
Assistant Professor

**Devanath Tirupati**  
Dean and Professor

**Dinesh Barot**  
Assistant Professor

**Ekta Sharma**  
Associate Professor

**Hetal Jhaveri**  
Assistant Professor

**Himani Baxi**  
Assistant Professor

**Jatin Christie**  
Senior Lecturer

**Jeemol Unni**  
Professor

**Jinal Parikh**  
Assistant Professor

**Karishma Dalal**  
Senior Lecturer

**Kunal Mankodi**  
Senior Lecturer

**Mita Suthar**  
Associate Professor

**Mruga Pandya**  
Adjunct Lecturer

**Neha Gadhvi**  
Lecturer

**Neha Desai**  
Senior Lecturer

**Nimit Thaker**  
Lecturer

**Pankaj Chandra**  
Vice Chancellor and Professor

**Pankaj Vaish**  
Professor of Practice of  
Management

**Parag Patel**  
Associate Dean UG Programmes  
and Associate Professor

**Paragi Shah**  
Assistant Professor

**Poonam Dugar**  
Senior Lecturer

**Pratishtha Pandya**  
Senior Lecturer

**Preeti Maneck**  
Senior Lecturer

**Ramadhar Singh**  
Distinguished University  
Professor

**Saptam Patel**  
Assistant Professor

**Saumil Shah**  
Senior Lecturer

**Shilpa Bhat**  
Assistant Professor

**Siddharth Saxena**  
Adhoc Faculty

**Sonal Yadav**  
Assistant Professor

**Sudhir Pandey**  
Senior Lecturer

**Sujo Thomas**  
Senior Lecturer

**Tana Trivedi**  
Adhoc Faculty

**Vaibhav Kadia**  
Assistant Professor

**Vibha Tripathi**  
Senior Lecturer

**Vivek Bhatt**  
Adhoc Faculty

**Zalak Shah**  
Senior Lecturer



## AMRUT MODY SCHOOL OF MANAGEMENT

### New Appointments in 2018-19

Faculty Name	Designation	Doctoral Degree From
Amol Agrawal	Assistant Professor	IIM Bangalore
Pallavi Vyas	Associate Professor	University of Chicago, USA
Supratim Dasgupta	Assistant Professor	University of South Carolina, USA
Vinod Madhavan	Associate Professor	Golden Gate University, USA

### SCHOOL OF ENGINEERING AND APPLIED SCIENCE

<b>Aditi Singhal</b> Assistant Professor	<b>Jaina Mehta</b> Lecturer
<b>Anurag Lakhiani</b> Senior Lecturer	<b>Mitaxi Mehta</b> Assistant Professor
<b>Ashok Ranade</b> Professor	<b>Narayan Padmanabhan</b> Professor
<b>Barbara Morawska</b> Associate Professor	<b>Pratik Trivedi</b> Senior Lecturer
<b>Deepak Kunzru</b> Distinguished Professor	<b>Sanjay Chaudhary</b> Associate Dean and Professor
<b>Deepak Verma</b> Assistant Professor	<b>Shashi Prakash</b> Assistant Professor
<b>Dharamashi Rabari</b> Assistant Professor	<b>Snigdha Khuntia</b> Assistant Professor
<b>Dharmesh Varade</b> Associate Professor	<b>Sridhar Dalai</b> Assistant Professor
<b>Dhaval Patel</b> Assistant Professor	<b>Srikrishnan Divakaran</b> Associate Professor
<b>Gaurav Goswami</b> Assistant Professor	<b>Sunil Kale</b> Dean and Professor
<b>Harshal Oza</b> Assistant Professor	<b>Varadharajan Iyer</b> Visiting Professor

### New Appointments in 2018-19

Faculty Name	Designation	Doctoral Degree From
Akhilesh Mimani	Assistant Professor	IISc Bangalore
Arijit Ganguli	Assistant Professor	Institute of Chemical Technology, Mumbai
Kaveshgar Maryam	Assistant Professor	National Technical University of Ukraine
Keyur Joshi	Assistant Professor	Queens University, Canada
Kumar Shashi Prabh	Associate Professor	University of Virginia, USA
Nitinkumar Banker	Associate Professor	IISc Bangalore

## SCHOOL OF COMPUTER STUDIES

**Aditya Patel**  
Assistant Professor

**Kunjal Gajjar**  
Senior Lecturer

**Trushali Jambudi**  
Senior Lecturer

**Heena Timani**  
Assistant Professor

**Kuntal Patel**  
Assistant Professor

**Vinay Vachharajani**  
Senior Lecturer

**Hiral Vegda**  
Lecturer

**Shefali Naik**  
Assistant Professor

**Jaideepsinh Raulji**  
Lecturer

**Siddhi Shah**  
Senior Lecturer

## SCHOOL OF ARTS AND SCIENCES

**Aditi Deo**  
Assistant Professor

**Mary Ann Chacko**  
Assistant Professor

**Ritesh Kumar Shukla**  
Assistant Professor

**Aparajita Basu**  
Assistant Professor

**Noopur Thakur**  
Assistant Professor

**Sanjay Singh**  
Associate Professor

**Ashutosh Kumar**  
Assistant Professor

**Patrick French**  
Dean and Professor

**Souvik Sen Gupta**  
Assistant Professor

**Ashwin Pande**  
Assistant Professor

**Raghavan Rangarajan**  
Dean of the Undergraduate  
College, Dean of Students and  
Professor

**Subhash Rajpurohit**  
Assistant Professor

**Manish Datt**  
Assistant Professor

**Vivek Tanavde**  
Associate Professor

**Manomohini Dutta**  
Assistant Professor

**Ratna Ghosal**  
Assistant Professor

## New Appointments in 2018-19

Faculty Name	Designation	Doctoral Degree From
Aditya Vaishya	Assistant Professor	National University of Ireland
Apaar Kumar	Assistant Professor	Emory University, USA
Joseph Van Weelden	Assistant Professor	McGill University, Canada
Karthik Rao Cavale	Assistant Professor	Massachusetts Institute of Technology, USA
Keita Omi	Assistant Professor	University of Utah, USA
Krishna BS Swamy	Assistant Professor	Academia Sinica, Taiwan
Leya Mathew		
Mahadevia Darshini	Assistant Professor	University of Pennsylvania, USA
Rama Ratnam	Visiting Professor	Jawaharlal Nehru University, New Delhi
Samuel Wright	Professor	University of Illinois, USA
Sarthak Bagchi	Assistant Professor	University of Chicago, USA
	Assistant Professor	Leiden University, The Netherlands

## GLOBAL CENTRE FOR ENVIRONMENT AND ENERGY

**P R Shukla**  
Distinguished Professor

**Minal Pathak**  
Senior Scientist

## CENTRE FOR LEARNING FUTURES

Ashwin Kumar  
Senior Fellow

Payel Mukherjee  
Fellow

Vaibhav Shah  
Assistant Professor

## CENTRE FOR HERITAGE MANAGEMENT

Neel Kamal Chapagain  
Associate Professor

Shahul Ameen KT  
Senior Lecturer

### New Appointments in 2018-19

Faculty Name	Designation	Doctoral Degree From
Aditya Kanth	Assistant Professor	National Museum Institute, New Delhi





# Balance Sheet

AS AT MARCH 31, 2019

Rs. in Crores

FUNDS AND LIABILITIES	Schedule	As at March 31, 2019	As at March 31, 2018
<b>( A ) Funds</b>			
Corpus Fund	1	136.24	103.24
Earmarked / Endowment Funds	2	362.86	92.66
Depreciation Fund	3	67.47	56.60
		<b>566.57</b>	<b>252.50</b>
<b>( B ) Loans</b>	4		
Secured		-	7.05
Unsecured		9.05	-
		<b>9.05</b>	<b>7.05</b>
<b>( C ) Project Grants</b>	5	<b>4.58</b>	<b>4.38</b>
<b>Total</b>		<b>580.20</b>	<b>263.93</b>
ASSETS	Schedule	As at March 31, 2019	As at March 31, 2018
<b>( A ) Property Plant &amp; Equipment</b>	6	<b>163.83</b>	<b>150.05</b>
<b>( B ) Intangible Asset</b>	6a	<b>4.28</b>	<b>3.62</b>
<b>( C ) Investments</b>	7	<b>278.93</b>	<b>28.78</b>
<b>( D ) Current Assets, Loans &amp; Advances</b>			
Receivables	8	10.88	2.67
Loans & Advances	9	31.06	5.39
Cash & Bank Balances	10	6.80	7.39
		48.74	15.45
Less : Current Liabilities & Provisions	11	21.88	10.23
<b>Net Current Assets</b>		<b>26.86</b>	<b>5.22</b>
<b>( E ) Income and Expenditure Account</b>	12	<b>106.30</b>	<b>76.26</b>
<b>Total</b>		<b>580.20</b>	<b>263.93</b>
<b>Significant Accounting Policies</b>	25		
<b>Notes forming part of Accounts</b>	26		

As per our report of even date  
For **Sorab S. Engineer & Co.**  
Firm Registration No. 110417W  
Chartered Accountants

**CA. Chokshi Shreyas B.**  
Partner  
Membership No. 100892  
Ahmedabad  
Date: 08.06.2019

**SANJAY S. LALBHAI**  
PRESIDENT

**B. M. SHAH**  
REGISTRAR & CFO

# Income and Expenditure

AS AT MARCH 31, 2019

Rs. in Crores

INCOME	Schedule	As at March 31, 2019	As at March 31, 2018
Fees (Net)	13	32.37	30.24
Grants, Donations & Scholarships	14	0.20	-
Interest Income	15	1.94	3.43
Other Income	16	2.89	1.17
<b>Total</b>		<b>37.40</b>	<b>34.84</b>
EXPENDITURE	Schedule	As at March 31, 2019	As at March 31, 2018
Employee Emoluments	17	37.72	35.50
Educational Expenses	18	5.94	3.54
Workshops / Events & Meeting Expenses	19	0.94	0.79
Repairs and Maintenance Expenses	20	6.65	5.91
Travelling & Conveyance	21	0.54	0.14
Finance Cost	22	0.34	0.21
Other Administrative Expenses	23	5.27	4.60
<b>Total</b>		<b>57.40</b>	<b>50.69</b>
<b>Operating Surplus / (Deficit) before Depreciation/Amortisation &amp; Exceptional Items</b>		<b>(20.00)</b>	<b>(15.85)</b>
Less: Depreciation / Amortisation (Net)	24	10.04	10.93
<b>Deficit for the year</b>		<b>(30.04)</b>	<b>(26.78)</b>
<b>Significant Accounting Policies</b>	25		
<b>Notes forming part of Accounts</b>	26		

As per our report of even date  
For **Sorab S. Engineer & Co.**  
Firm Registration No. 110417W  
Chartered Accountants

**CA. Chokshi Shreyas B.**  
Partner  
Membership No. 100892  
Ahmedabad  
Date: 08.06.2019

**SANJAY S. LALBHAI**  
PRESIDENT

**B. M. SHAH**  
REGISTRAR & CFO

# Balance Sheet Schedule

Attached to and forming part of Accounts

Rs. in Crores

PARTICULARS	Schedule	As at March 31, 2019	As at March 31, 2018
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## Corpus Fund

1

Balance as per last financial statements	103.24	103.24
Addition : Donation received /Transfer during the year	33.00	-

### Total

<b>136.24</b>	<b>103.24</b>
---------------	---------------

## Earmarked / Endowment Funds

2

Balance as per last financial statements	92.66	70.77
Addition: Funds and other income received during the year (Note 4 of Schedule 26)	273.03	24.97
	-	-

Deduction : Funds Utilized / Transferred (Note 4 of Schedule 26)	2.83	3.08
---	------	------

### Total

<b>362.86</b>	<b>92.66</b>
---------------	--------------

## Depreciation Fund

3

Balance as per last financial statements	56.61	44.80
Add: Provided during the year	10.96	11.94

67.57	56.74
-------	-------

Less: Depreciation on Assets sold during the year	0.10	0.13
---	------	------

### Net Balance

<b>67.47</b>	<b>56.60</b>
--------------	--------------

## Loans

4

Secured Loans		
Overdraft( Secured against Bank FD)	-	7.05
Unsecured Loans		
From Ahmedabad Education Society (Interest free)	9.05	-

### Total

<b>9.05</b>	<b>7.05</b>
-------------	-------------

## Project Grant

5

Project Grant - Faculties	1.39	1.19
GOG-SSIP Project	-	0.02
GICT-Environmental Risk Assessment of Chemicals and Nano Material	0.25	0.26
GICT- NanoTechnology (CENTRA)	0.47	0.47
BIRAC-Bionest	2.32	2.44
Seed Grants	0.05	
Start up Grants	-	
FCRA Project Grants	0.10	

### Total

<b>4.58</b>	<b>4.38</b>
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# Balance Sheet Schedule

Attached to and forming part of Accounts

Rs. in Crores

INCOME	Schedule	As at March 31, 2019	As at March 31, 2018
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## Property Plant & Equipment

6

Balance as per last financial statements	138.72	129.66
Add: Addition during the year out of Owned Funds	6.77	8.64
Add: Addition during the year out of Project Grant	0.27	0.61
	145.76	138.91
Less: Assets sold during the year	0.21	0.18
	145.55	138.72
Add: Urban Forest (Arboretum)	0.03	
Add:-Capital Work in Progress	7.77	0.35
Add:-Capital Advances	10.48	10.98
<b>Net Balance</b>	<b>163.83</b>	<b>150.05</b>

## Intangible Asset

6a

Balance as per last financial statements	3.62	3.19
Add: Addition during the year out of Owned Funds	0.66	0.43
Add: Addition during the year out of Project Grant	-	-
<b>Net Balance</b>	<b>4.28</b>	<b>3.62</b>

## Long Term Investments

7

Term Deposit with Gruh Finance Limited	-	5.00
Investment in Bonds	264.64	9.52
Term Deposit with Banks	14.29	14.26
<b>Total</b>	<b>278.93</b>	<b>28.78</b>

## Receivables

8

Interest Accrued on Investments	10.45	2.25
Income Receivable	0.06	-
Fees Receivable	-	-
Considered Good	0.37	0.42
Considered Doubtful	-	-
Less: Provision for Doubtful Receivable	-	-
Net Fees receivable	0.37	0.42
<b>Total</b>	<b>10.88</b>	<b>2.67</b>

# Balance Sheet Schedule

Attached to and forming part of Accounts

Rs. in Crores

PARTICULARS	Schedule	As at March 31, 2019	As at March 31, 2018
<b>Loan &amp; Advances</b>	<b>9</b>		
Advances Recoverable in Cash or Kind or for Value to be received		28.54	3.29
Deposits		0.80	0.49
TDS Receivable		0.26	0.11
Interest Free Loan to Students		0.15	0.17
Prepaid Expenses		1.31	1.33
<b>Total</b>		<b>31.06</b>	<b>5.39</b>
<b>Cash &amp; Bank Balances</b>	<b>10</b>		
Cash on Hand		-	0.01
Bank Balance		-	-
In Savings / OD Account		6.80	7.38
<b>Total</b>		<b>6.80</b>	<b>7.39</b>
<b>Current Liabilities &amp; Provisions</b>	<b>11</b>		
<b>Current Liabilities</b>			
Sundry Creditors		13.26	1.03
Statutory Dues		1.15	1.02
Deposits from Students		1.41	1.50
Earnest Money Deposits		0.07	0.07
Retention Money		0.73	0.64
Other Liabilities		0.56	0.23
Outstanding Liability for Expenses		0.60	0.33
<b>Provisions</b>		-	-
Leave Encashment		2.29	2.61
Gratuity		1.81	2.80
<b>Total</b>		<b>21.88</b>	<b>10.23</b>
<b>Income &amp; Expenditure Account</b>	<b>12</b>		
Balance as per last financial statements		76.26	49.48
Add:- Deficit for the year		30.04	26.78
<b>Total</b>		<b>106.30</b>	<b>76.26</b>

# Income And Expenditure Schedule

Attached to and forming part of Accounts

Rs. in Crores

INCOME	Schedule	As at March 31, 2019	As at March 31, 2018
<b>Fees (Net)</b>	<b>13</b>		
Tuition Fees		34.16	32.84
Less : Transferred to University Development Reserve		1.79	2.60
<b>Total</b>		<b>32.37</b>	<b>30.24</b>
<b>Grants, Donations &amp; Scholarship</b>	<b>14</b>		
Donation		0.20	-
<b>Total</b>		<b>0.20</b>	<b>-</b>
<b>Interest Income</b>	<b>15</b>		
(Net of allocation of Rs.14.54 Crores ; Previous year Rs.0.01 Crores)			
On Fixed Deposit		1.55	3.31
On Savings Bank A/c		0.39	0.10
Incentive on Investments		-	0.02
<b>Total</b>		<b>1.94</b>	<b>3.43</b>
<b>Other Income</b>	<b>16</b>		
Consultancy Income		0.13	0.01
Overhead Recovery		0.30	0.14
Placement & Other Fees		1.75	0.60
Form Fee		0.29	0.29
Notice Pay		0.01	0.01
Sundry Balances written off		-	-
Surplus on sale of Property ,Plant & Equipments (Net)		0.04	-
Service Charges		0.03	0.02
Admission Cancellation Charges		0.30	0.09
Amortization Discount received on Bonds		-	-
Other Miscellaneous Income		0.04	0.01
<b>Total</b>		<b>2.89</b>	<b>1.17</b>
<b>Employee Emoluments</b>	<b>17</b>		
Salary, Allowances and Bonus		33.29	29.57
Contribution to Retirement Funds		2.04	3.55
Staff Welfare		0.64	0.63
Honorarium		1.75	1.75
<b>Total</b>		<b>37.72</b>	<b>35.50</b>



# Income And Expenditure Schedule

Attached to and forming part of Accounts

Rs. in Crores

INCOME	Schedule	As at March 31, 2019	As at March 31, 2018
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## Educational Expenses

18

Sage Journal Cost (CHM)	0.07	-
GEMBA Program Expenses	0.29	-
Students Educational Activities	2.68	2.39
Financial Aid to Students	0.40	0.43
Faculty Development	0.72	0.48
Fellowship to students	0.02	-
Accommodation charges (Hostel Rent)	1.05	-
Venture Expenses	-	-
Sports & Games	0.09	0.06
Consumables	0.40	0.18
Other Educational Expenses	0.22	-

### Total

5.94

3.54

## Workshops / Events & Meeting Expenses

19

Workshops, Events & Seminars (Net)	0.84	0.69
Meeting & Conferences	0.10	0.10

### Total

0.94

0.79

## Repairs and Maintenance Expenses

20

Building Repairs & Maintenance	3.12	2.37
Campus Development	0.42	0.97
Repairs to Furniture/ Equipment/Computer & Others	1.56	1.24
Software Maintenance charges	0.14	0.05
Security Expenses	0.92	0.64
Rates & taxes	0.39	0.39
Website Charges	0.10	0.25

### Total

6.65

5.91

## Travelling & Conveyance

21

Domestic	0.28	0.14
Foreign	0.26	-

### Total

0.54

0.14

# Income And Expenditure Schedule

Attached to and forming part of Accounts

Rs. in Crores

INCOME	Schedule	As at March 31, 2019	As at March 31, 2018
<b>Finance Cost</b>	<b>22</b>		
Bank Charges		-	-
Amortization of Premium on Bonds		0.02	
Interest on Bank Overdraft		0.32	0.21
<b>Total</b>		<b>0.34</b>	<b>0.21</b>
<b>Other Administrative Expenses</b>	<b>23</b>		
Utilities		1.78	1.60
Communication		0.94	0.78
Public Relation Activity		1.19	0.88
Insurance		0.13	0.14
Recruitment		0.24	0.23
Stationery & Printing		0.39	0.36
Legal & Professional Fees		0.28	0.26
Audit Fees		0.02	0.02
Sundry Balances written off		0.01	0.06
Other Misc. Expenses		0.29	0.26
Loss on sale of Fixed Assets (Net)		-	0.01
<b>Total</b>		<b>5.27</b>	<b>4.60</b>
<b>Depreciation &amp; Amortisation</b>	<b>24</b>		
Depreciation for the year		10.96	11.93
Less : Transferred from Earmarked Funds		0.92	1.00
<b>Total</b>		<b>10.04</b>	<b>10.93</b>

# Schedule 25

## SIGNIFICANT ACCOUNTING POLICIES

### 1. ACCOUNTING CONVENTION

The financial statements are prepared in accordance with the Indian Generally Accepted Accounting Principles (GAAP) under the historical cost convention, and on the accrual method of accounting and Accounting Standards as Notified by the Institute of Chartered Accountants of India.

### 2. USE OF ESTIMATES

The preparation of Financial Statements in conformity with Indian GAAP requires the management to make estimates and assumptions in the reported amounts of assets and liabilities (including contingent liabilities) as of the date of the financial statements and the reported income and expenses during the reporting period. Management believes that the estimates used in preparation of the financial statements are prudent and reasonable. Future results could differ from these estimates. Difference between the actual results and estimates are recognized in the period in which the results are known or materialize.

### 3. PROPERTY, PLANT & EQUIPMENT (PPE)

3.1 PPE are stated at cost of acquisition inclusive of freight, duties and taxes and incidental and direct expenses related to acquisition.

3.2 PPE received by way of Donation are capitalized at values stated, by corresponding credit to Capital/Corpus Fund.

3.3 Capital Work in progress includes cost of PPE that are not ready for intended use as at Balance Sheet date and is disclosed under PPE.

### 4. DEPRECIATION

4.1 Depreciation of addition to PPE has been provided on pro rata basis i.e. from the date of put to use.

4.2 The depreciation has been provided on Written down Value Method at the rate as specified in the Guidance Note on "Accounting for Schools" issued by the Institute of Chartered Accountants of India except (a) depreciation on Building Improvements, which has been provided at Straight Line Method over a period of 10 years; (b) ERP Software is being amortized over the period of 5 years; (c) Other Software and Assets given to employees which are being amortized over the period of 3 years; (d) Depreciation on Scientific Equipment is provided at 20%.

4.3 Assets costing individually Rs.5,000/- or less, wherever applicable, are depreciated at the rate of 100%.

4.4 Depreciation in Income & Expenditure Account is net of the amount of depreciation transferred from related earmarked/capital funds.

### 5. REVENUE RECOGNITION

5.1 Fees from Students are recognized on accrual basis and accounted for on the basis of the period of academic year.

5.2 Interest on Investments is recognized on accrual basis.

5.3 Donations/contributions are recognized on its ultimate collection.

### 6. FOREIGN CURRENCY TRANSACTIONS

6.1 Transactions denominated in foreign currency are accounted at the exchange rate prevailing at the date of transaction. Foreign currency monetary items outstanding at the balance sheet date are restated at the yearend rates.

6.2 Income or Expense, if any, on account of exchange difference either on settlement or on translation is charged to revenue.



# Schedule 25

## SIGNIFICANT ACCOUNTING POLICIES

### 7. INVESTMENTS

Long Term Investments are carried at cost.

### 8. EMPLOYEE BENEFITS

#### Defined Contribution Plan

Retirement Benefit such as Provident Fund, which is defined contribution, is provided for on actual basis as and when the contribution accrues.

#### Defined Benefits Plan

Gratuity, a defined benefit obligation, is funded through LIC of India. The liability is accrued and provided for on the basis of actuarial valuation report, as at the Balance Sheet date. Accumulated Leave encashment benefit payable on death/retirement is accounted on accrual basis as per the Actuarial Valuation report.

### 9. GOVERNMENT GRANT

Government grant related to revenue is recognized in the Income & Expenditure Account in the year of accrual/receipt.

### 10. PROVISIONS, CONTINGENT LIABILITIES AND CONTINGENT ASSETS

Provisions involving a substantial degree of estimation in measurement are recognized when there is a present obligation as a result of past events and it is probable that there will be an outflow of resources. Contingent liabilities are not recognized but are disclosed in the accounts by way of a note. Contingent assets are neither recognized nor disclosed in the financial statements.

# Schedule 26

Notes forming part of Accounts

Rs. in Crores

1. Tax Deducted at Source	As at March 31, 2019	As at March 31, 2018
Interest Income	0.12	0.02
Other Income	0.03	-
<b>Total</b>	<b>0.15</b>	<b>0.02</b>
2. Capital Commitment	As at March 31, 2019	As at March 31, 2018
Capital Contracts remaining to be executed and not provided for (Net of Advance)	134.33	30.76
3. Expenditure in Foreign Currency	As at March 31, 2019	As at March 31, 2018
Entrepreneurship Program	-	-
Foreign Travel & Workshop Expenses	0.26	0.13
Argosy Faculty Collaborative Exchange Programme workshop	0.05	0.26
Faculty Development Expenses	-	0.04
Payment to visiting faculties	0.56	0.05
Payment towards fees for technical service	0.62	0.01
Payment for Study material access	0.38	0.46
<b>Total</b>	<b>1.87</b>	<b>0.95</b>
4. Details of Movement in Earmarked Funds	As at March 31, 2019	As at March 31, 2018
<b>Addition during the year:</b>		
Fund created out of Fees	1.79	2.60
Interest	14.51	0.01
Other Income	0.03	0.57
Donation for Recurring Expenditure	0.43	0.19
Fund created for Assets purchased during the year	0.27	0.61
Donation for Capital Expenditure	256.00	21.00
<b>Total</b>	<b>273.03</b>	<b>24.98</b>
<b>Deduction made during the year:</b>		
Recurring expenditure incurred	0.13	0.52
Transferred to Income & Expenditure A/c to the extent of Depreciation	0.92	1.00
Scholarships & Freeship paid	1.78	1.54
Funds Transferred to Corpus fund	-	-
Grant Refunded	-	0.02
<b>Total</b>	<b>2.83</b>	<b>3.08</b>
5. Current Assets, Loans and Advances		

In the opinion of the Management, current assets, loans and advances have a value on realization in the ordinary course of business, equal at least to the aggregate amount shown in the Balance Sheet.

# Schedule 26

Notes forming part of Accounts

## 6. Taxation

The University has been accorded approval for exemption u/s. 10(23C) (vi) of the Income Tax Act, 1961. The University is also registered under section 12AA of the Income Tax Act, 1961. In the absence of any taxable income, the tax provision has not been considered necessary.

7. Corresponding figures for the previous year have been regrouped / rearranged, wherever necessary to make them comparable with those of current year.

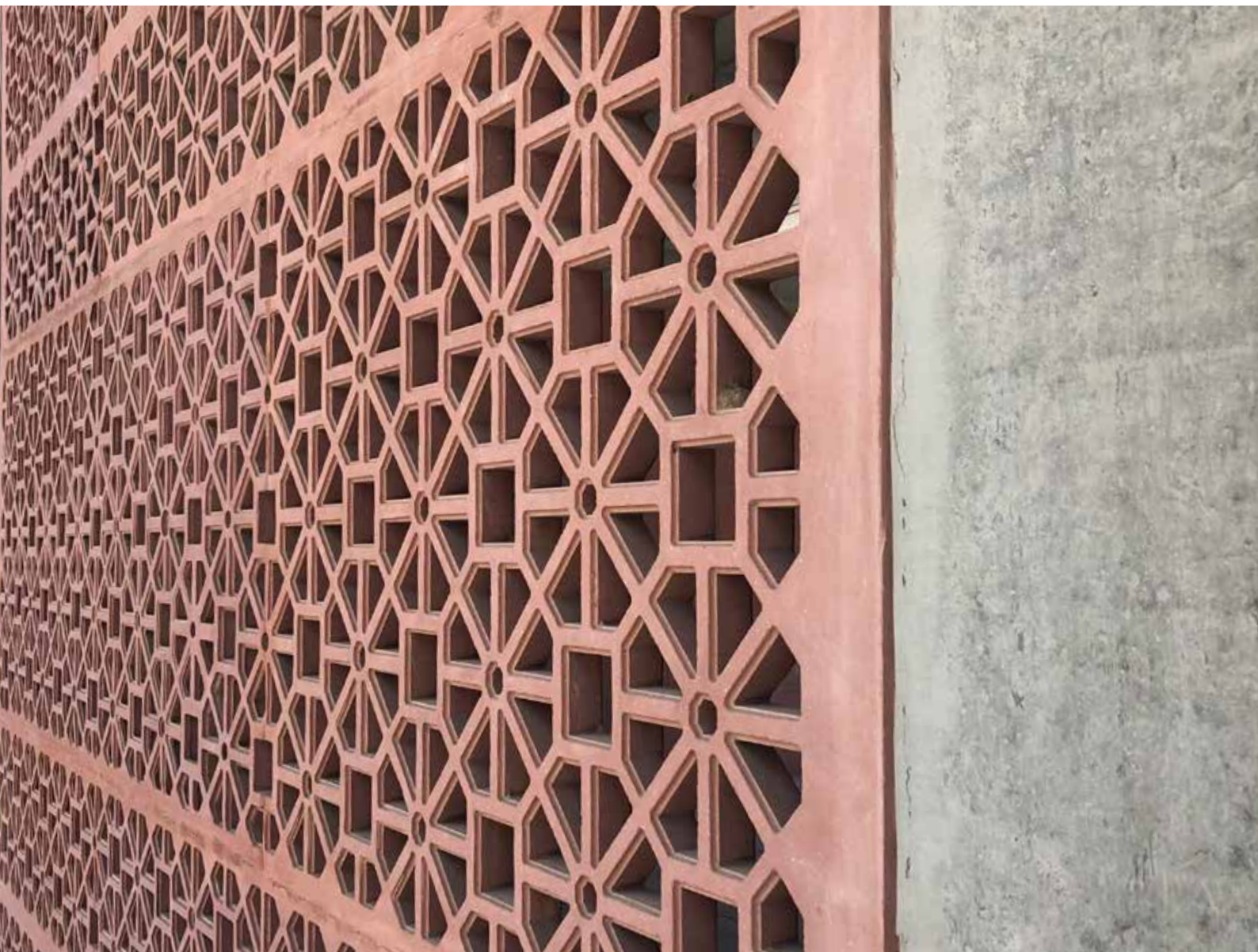
As per our report of even date  
For **Sorab S. Engineer & Co.**  
Firm Registration No. 110417W  
Chartered Accountants

**CA. Chokshi Shreyas B.**  
Partner

**SANJAY S. LALBHAI**  
PRESIDENT

**B. M. SHAH**  
REGISTRAR & CFO

Membership No. 100892  
Ahmedabad  
Date: 08.06.2019





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