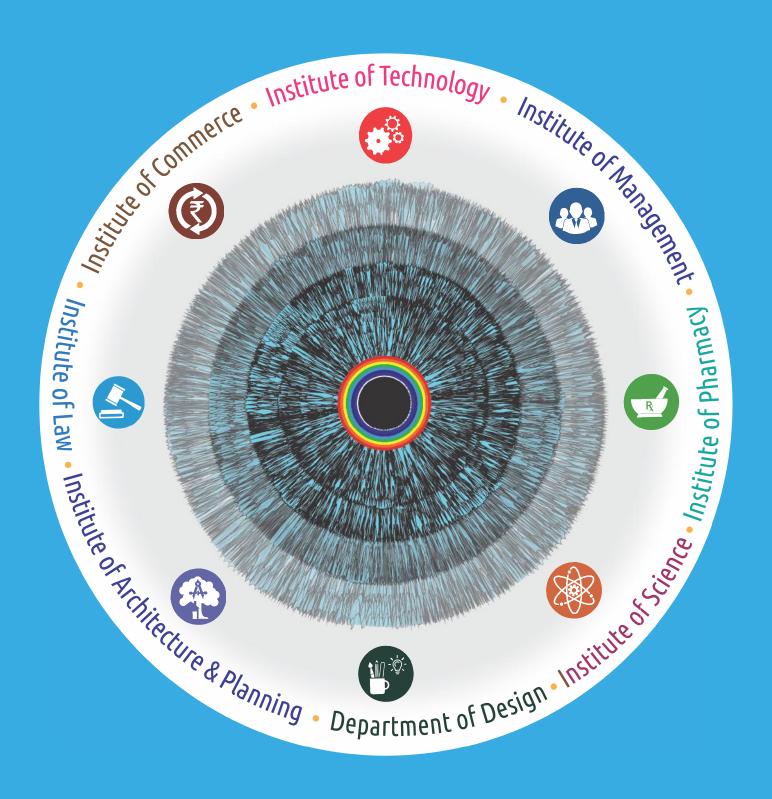
RESEARCH REPORT







Annual Research Report (2017-18)

Nirma University
Sarkhej-Gandhinagar Highway, Ahmedabad- 382 481
Website: www.nirmauni.ac.in

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Message from the Vice President

Over the years, Nirma University has become synonymous to the sacred temple of learning in Higher

Education and has achieved a renowned place in research. This reflects the vision of the leaders, efforts put in

by the educational ecosystem and commitment by the faculty members. The University is emerging as a

center of excellence in multi-disciplinary areas and is committed to continuously enhance research output

from the faculty members and the students.

The University, due to its very nature of adaptability, has embraced Revised Bloom's Taxonomy and ICT in

teaching and learning, active learning in classrooms and promotes out -of-box thinking for research. The

development of new infrastructure: laboratory, library, and hostel facilities, the support system, and the serene

environment offer academic and research ambience for one to come out with the best. Various schemes for

promotion of research and incentives are in place along with the flexibility for the researchers to undertake

and execute the research projects.

The University constantly engages itself with industry and academic partners through MoUs, consultancy,

and research interactions, not only nationally but also internationally. The University endeavours to reach the

last person in the society through relevant research and extension activities.

This Annual Research Report 2018 comprehensively presents the progress of the University and draws the

outline of the future directions. I congratulate everyone for their efforts and expect better research outcomes

in the years to come. The improvements observed are due to the energy put in by the faculty and student

researchers and I acknowledge their consistent and careful efforts.

K. K. Patel

Vice President

Nirma University

Message from the Director General

Dear Reader:

Greetings!

Scientific mind set and empirical research have changed the destiny of the modern humans. In fact, they have brought about the Industrial Revolution that, in turn, led to mass production and unprecedented prosperity for humankind. The trend continues. We cannot think of modern world without research-based

problem solving.

Industrial Revolution 4.0 is also a product of research and innovation. Among other institutions, universities have played a pivotal role in shaping it. A progressive modern university cannot visualise its identity without strong focus on research and innovation. As a young university, we have chosen research and innovation as inseparable part of our existence. The Nirma University, Ahmedabad is poised to contribute its mite for the growth and development of the knowledge society. Its research commitment is ratcheting up day by day. Our faculty members are devoting greater time to research and innovation. Our institutions are offering Ph.D. admission to more numbers of full time students. We are collaborating more on research projects with our valued partners. Last but not the least we are strengthening our research infrastructure.

Our focus is more on quality research. Our faculty endeavour to maximise both theoretical and contextual relevance. They also publish their works in journals that are connected with the worldwide knowledge system.

The current Research Report presents the various facets of our research strivings. The Report also highlights various innovations that are taking place at the University. I am sure you will find this Report useful and interesting.

Warm Regards,

Anup K. Singh, Ph.D.

Preface

We live in a period characterized by knowledge based competition, in which for any University, the most valuable assets can be described by three 'I's. - Innovation, Information and Intellectual Property. These three 'I's can be achieved by promoting research at different levels in an organization / University and by sharing the outcomes of research with the society. Considering the importance of research activities and their outcomes, Nirma University regularly publishes its Annual Research Report. The Report basically serves as a compilation of the outcomes of various research activities, including the funded research projects, publications, patents, research awards and the summary of various conferences / seminars / workshops /research talks organized by the constituent institutes of the University.

This edition of the Annual Research Report includes research activities carried out by the University and its constituent institutes for the duration of April 01, 2017 to March 31, 2018. The University has become more conscious about the quality of the research and hence in the current issue, only the noteworthy research outcomes have been included. Brief overview of the Report is presented in the subsequent paragraph.

This year, the data for the Research Report were compiled through the Information and Communication Technology (ICT) based tool. During the financial year 2017-18, total six (6) projects funded by the ISRO, DST, IC-IMPACTS, GSBTM and ICMR, worth ₹ 1,43,72,300/= were successfully completed. The current year witnessed an incessant flow of productivity resulting in thirty two (33) major and seven (07) minor ongoing research projects with a total external funding of ₹ 8,29,11,020/-. The University has also continued funding for the major and minor research projects. Under the said schemes, nineteen (19) minor research projects were completed during the year. Two major projects, worth ₹ 56 Lacs are sanctioned by the University in the previous years are under progress. At the same time, the University has increased the finacial grant to ₹ 2 Lacs per minor research project and total sixteen (16) minor research projects are undertaken by the faculty members. This year, especially for the publications, only the quality papers published in Scopus / Web of Science / ABDC / EBSCO indexed journals are considered and a list of 175 such papers is included in the Report. Three patents are published and two new patents are filed during the year 2017-18. Apart from these, thirty six (36) faculty members received research awards in different categories and ten (10) faculty members got financial assistance to attend international conferences / workshops.

The year was eventful with several research conferences, seminars, and workshops on emerging trends

being organized by the constituent institutes. Apart from this, the constituent institutes have arranged more

than hundred (100) research talks / lectures by the eminent speakers.

Before summing up, I sincerely thank the University Management, the Vice President, the Director

General, Honorary Advisor and the Executive Registrar for their support and necessary guidance at

different stages. My sincere thanks are due to all the esteemed members of the Editorial Board for their

valuable suggestions to further improve the quality of the Report. My special thanks to Prof. Sangita

Shroff, Head – Department of Design and Prof. Immanuel Suresh, – Department of Design for designing

the cover page of the Report. Finally, I would like to thank all the faculty members of the University, who

have put their untiring efforts to achieve the desired research outcomes.

Dr. Dhaval Pujara

Director (I/C),

Directorate of Research and Innovation (DRI) – Nirma University

Chairman – Editorial Board

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University Research Statistics at a Glance

University Research Statistics at a Glance

Major Research Projects		Total
Completed Major Research Projects Funded by	Projects Completed	06
the External Funding Agencies	Total Grant	₹ 1,43,72,300/=
Ongoing Major Research Projects Funded by	Projects Ongoing	33
the External Funding Agencies	Total Grant	₹ 8,03,17,020/=
Ongoing Major Research Projects Funded by	Projects Sanctioned	02
Nirma University	Total Grant	₹ 55,92,400/=
	'	
Minor Research Projects		
Completed Minor Research Projects Funded by	Projects Completed	13
the External Funding Agencies	Total Grant	₹ 63,43,100/=
Ongoing Minor Research Projects Funded by	Projects Ongoing	07
the External Funding Agencies	Total Grant	₹ 25,94,000/=
Completed Minor Research Projects Funded by	Projects Completed	19
Nirma University	Total Grant	₹ 15,06,200/=
Ongoing Minor Research Projects Funded by	Projects Ongoing	16
Nirma University	Total Grant	₹ 13,94,000/=
	<u>'</u>	
Research Publications		
Research Publications in Scopus / Web of Scien	ce / ABDC / EBSCO	175
Listed Journals during 2017		
Books Published	18	
Book Chapters Published	74	
Cases Published	06	
Patents		
Patents Published		03
Patents Filed		02
Doctoral Research		
Ph.D. Degree Awarded		37
Total Ph.D. Students		319
Total Ph.D. Guides		178
Research Awards		
Research Awards Received by the Faculty Mem	36	
Faculty Members who Received Financial Supp	12	
Funding Agencies and Nirma University for Att		
Conferences		
Conferences / Seminars	d of works	00
International / National Conferences Organized	•	09
Seminars / Workshops / Refresher Courses Orga		18
Research Talks / Lectures Organized by the Inst	114	

Research Report of **Institute of Technology**

Institute of Technology - Research Statistics at a Glance

April 01, 2017 - March 31, 2018

Major Research Projects		Total	
Completed Major Research Projects	Projects Completed	03	
Funded by the External Funding Agencies	Total Grant	₹ 75,21,000/=	
Ongoing Major Research Projects Funded	Projects Ongoing	17	
by the External Funding Agencies	Total Grant	₹ 3,49,11,000 /=	
Ongoing Major Ongoing Research Projects	Projects Ongoing	01	
Funded by Nirma University	Total Grant	₹ 27,00,000/=	
Minor Research Projects			
Completed Minor Research Projects	Projects Completed	05	
Funded by the External Funding Agencies	Total Grant	₹ 25,01,100/=	
Completed Minor Research Projects	Projects Completed	09	
Funded by Nirma University	Total Grant	₹ 8,53,000/=	
Ongoing Minor Research Projects Funded	Projects Ongoing	09	
by Nirma University	Total Grant	₹ 8,49,000/=	
Research Publications			
Research Papers in Scopus / Web of Science	/ ABDC / EBSCO Listed	55	
Journals during 2017			
Books Published	05		
Book Chapters Published	42		
Patents			
Patents Published		03	
Patents Filed		02	
Doctoral Research			
Ph.D. Degree Awarded		11	
Total Ph.D. Students		119	
Total Ph.D. Guides		57	
Research Awards			
Research Awards Received by the Faculty M		19	
	Faculty Members who Received Financial Support from the External		
Funding Agencies and Nirma University for			
Conferences			
Conferences / Seminars			
International / National Conferences Organ		02	
Seminars / Workshops / Refresher Courses O	·	07	
Research Talks / Lectures Organized by the	63		

Research Projects

Major Research Projects

Completed Major Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Development of Passive Damping Surface Coating For Advanced Materials Based Structural Systems Using Pzt (Piezo) Powder	Prof. Sharadkumar Purohit, Prof. Paresh Patel	Indian Space Research Organisation	12,71,000/=
2.	Study the Behaviour of Precast Beam-Column Junction Under Progressive Collapse Scenario: An Experimental and Analytical Investigation	Prof. Paresh Patel, Prof. Digesh Joshi	Science and Engineering Research Board, DST	20,50,000/=
3.	Application of Precast Products Made using Bottom Ash and Fly Ash for Rural Pavements and other Infrastructure in India	Prof. Urmil Dave	India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability (IC-IMPACTS)	42,00,000/=
Total	Grant			₹ 75,21,000/=

Ongoing Major Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Oceanic Pollution and Other Ocean Phenomenon Monitoring Using Feature Extraction from Multi Polarized SAR Data	Prof. Tanish Zaveri, Prof. Pooja Shah	ISRO- RESPOND	18,26,000/=
2.	Study and Development of Domain Adaptive Classification Algorithms for Advanced Earth Observation and Annotation System	Prof. Tanish Zaveri, Prof. Priyank Thakkar, Prof. Pooja Shah	ISRO- RESPOND	17,90,000/=
3.	Algorithm for Water	Prof. Tanish Zaveri,	ISRO-	17,00,000/=

	Pollutant Identification Due to Sewage and Industry Disposals for South Karnataka Coast, Mangalore Region	Prof. Pooja Shah	RESPOND	
4.	Mining Crop Cover, Crop Type and Crop Stages From L & S Band SAR	Prof. Madhuri Bhavsar, Prof. Zunnun Narmawala, Prof. Swati Jain	ISRO- RESPOND	14,28,000/=
5.	SAR Polarimetry for Detecting Ocean Surface Targets	Prof. Alka Mahajan, Prof. Madhuri Bhavsar, Prof. Payal Prajapati	ISRO- RESPOND	18,52,000/=
6.	Design and Development of Scalable Data Mining Algorithms for Big Earth Data	Dr. Sanjay Garg	ISRO- RESPOND	10,70,000/=
7.	Spectral Discrimination and Separability Analysis of Crops and Weeds using Deep Learning Techniques	Prof Tarjni Vyas, Dr. Samir Patel (PDPU), Dr. Vibha Patel (GTU)	ISRO- RESPOND	10,00,000/=
8.	Design, Fabrication and Testing of a Corrugated Horn Antenna for Millimeter Wave Plasma Diagnostics	Prof. Dhaval Pujara	Board of Research in Nuclear Sciences	23,80,000/=
9.	Using Deep Learning to Understand and Predict the Dynamics of Tokamak Discharges	Prof. Priyanka Sharma, Prof. Swati Jain	Board of Research in Nuclear Sciences	26,00,000/=
10.	Trajectory Planning for Robotic Arm for Automatic Damage Detection & Recognition of First Wall Tile Images in Tokamak Using Image Processing and Machine	Prof. Swati Jain, Prof. Priyanka Sharma	Board of Research in Nuclear Sciences	21,25,000/=
11.	Identification of Material And Distress for Road Network of Ahmedabad City Using L And S Band Airborne SAR	Prof. Hemang Dalwadi, Prof. Parul Patel	Indian Space Research Organisation	19,56,000/=
12.	Development of Low Cost Methodology for Surveying and Mapping with IRNSS	Prof. Parul Patel, Prof. Hemang Dalwadi	Indian Space Research Organisation	17,05,000/=

13.	Identification of Existing Road Material, Condition And Potential Parking Area of Ahmedabad City Using AVRIS Data and Updation Plan of Undeveloped Road	Prof. Parul Patel, Prof. Tanish Zaveri	Indian Space Research Organisation	17,00,000/=
14.	Identification of Perched Water Table Areas in Irrigated Tracts and Seepage Through Irrigation Canal Using Air-Borne SAR Data	Prof. Parul Patel	Indian Space Research Organisation	20,67,000/=
15.	Development of Comprehensive Technique for Soil Moisture Estimation using L & S Band Airborne Polarimetric SAR Data	Dr. Sanjay Garg Dr. Priyank Thakkar, Dr. Vijay Ukani, Dr. Arundhati Ray Misra & Dr. Dharmendra Pandey (Space Applications Centre)	Indian Space Research Organisation	21,80,000/=
16.	Calibration and Validation of RISAT-I SAR Sensor	Prof. Parul Patel	Indian Space Research Organisation	37,60,000/=
17.	Design Against Radiation Effects ASIC Standard Cell Library for VLSI Circuits	Prof. Niranjan Devashrayee, Prof. Nagendra Gajjar	Defence Research and Development Organisation	37,72,000/=
Total	Grant			₹ 3,49,11,000 /=

Ongoing Major Research Projects Funded by Nirma University

Sr.	Title of the Project	Project	Grant
No.		Investigator/s	(in ₹)
1.	Affordable PD Doped Perovskite based	Prof. Femina Patel,	27,00,000/=
	Catalytic Converter for Abating	Prof. Sanjay Patel,	
	Automotive Emission	Prof. Niraj Shah	
Total	Grant		₹ 27,00,000/=

Minor Research Projects

Completed Minor Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Characterization of Shock Table	Prof. Sharadkumar Purohit, Prof. Paresh Patel	Gujarat Council on Science and Technology	7,40,000/=
2.	Low Noise Low Power Automatic Gain Control Amplifier for Biomedical Applications	Prof. Dipesh Panchal, Prof. Akash Mecwan, Prof. Vijay Savani	Gujarat Council on Science and Technology	3,20,000/=
3.	Establishment of Free Space Optical Link for Real Time Audio Transmission	Prof. Dhaval Shah, Prof. Dilip K. Kothari	Gujarat Council on Science and Technology	3,41,000/=
4.	Design and Development of Automated and Reliable Service Provisioning Cloud Architecture for Engineering Educational Domain	Prof. Madhuri Bhavsar	Gujarat Council on Science and Technology	3,00,000/=
5.	Development of Reinforced Aerated Blocks with Innovative Composite Ingredient as Compression Member for Structural Application with Stringent Design Applications	Prof. Urmil Dave	Indian Space Research Organisation	8,00,000/=
Total	Grant			₹ 25,01,100/=

Completed Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Investigation of Heat Transfer in Pool Boiling over Structured Surface	Prof. Balkrushna Shah	95,000/=
2.	Development of Navigation Algorithm For Autonomous Mobile Robot	Prof. Vishal Vaidya, Prof. Ankit Sharma	1,00,000/=
3.	Fabrication, Characterisation and Application of Polymer in Solar Cell	Prof. Neha Patni	1,00,000/=
4.	Development of High Temperature Applications Using Fresnel Lens as Solar Collector	Prof. Raju Mewada	1,00,000/=
5.	To Study the Effect of Characterization Properties on Dimensional Control for Composite Product	Prof. Dhaval Shah, Prof. Jagmitra Joshi	1,00,000/=

6.	Investigations on Producer Gas Quality	Prof. Darshit	1,00,000/=
	for a Fixed Bed Gasifier	Upadhyay,	
		Prof. Niraj Shah	
7.	Investigation on Application of Minimum	Prof. Mayur	60,000/=
	Quantity Solid Lubrication in Machining	Makhesana,	
	Process	Prof. B. K. Mawandiya,	
		Prof. Kaushik Patel	
8.	Simultaneous Localization and Mapping	Prof. D. K. Kothari,	98,000/=
	Using Autonomous Unmanned Aerial	Prof. Dipesh Panchal	
	Vehicle		
9.	Use of Previous Concrete for Solving	Prof. Urmil Dave,	1,00,000/=
	Problem Related to Water Clogging at	Prof. Tejas Joshi	
	Nirma University Campus		
Total	Grant		₹ 8,53,000 /=

Ongoing Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project Investigator/s	Grant
No.			(in ₹)
1.	3 D Laser Triangulation based Object Height Measurement	Prof. Harsh Kapadia	1,00,000/=
2.	Design of Walking Mechanism for a Bipedal Robot	Prof. Jatin Dave, Prof. Mihir Chauhan, Prof. Reena Trivedi	1,00,000/=
3.	Tribology With Biodiesel: An Experimental Study to Identify Tribo Corrosion Behaviour of Different BioDiesel	Prof. Absar Lakdawala, Prof. Tejas Raval	1,00,000/=
4.	Prototype of Femto Satellite Using Embedded Processors for Internet of Space	Prof. Ami Shukla, Prof. Nagendra Gajjar, Prof. N. M.Devashrayee	99,000/=
5.	Evaluation of Effect of Induced Shear in Blending of Powders on Mechanical Properties of Aluminium Based Metal Matrix Composites	Prof. Arvind Sankhla	50,000/=
6.	Development of Low-Cost Technique for Cu-Extraction from E-waste	Prof. Amita Chaudhary	1,00,000/=
7.	Synthesis, Characterization and Application of Polymer in Organic Solar Cell	Prof. Neha Patni	1,00,000/=
8.	Application of Acoustic Based Techniques for Detection of Machinery Faults	Prof. Dhaval Patel, Prof. Kaushik Patel	1,00,000/=
9.	Experimental Investigations on Artificially Roughened Solar Air Heater	Prof. Sanjay Jain, Prof. Vikas J Lakhera	1,00,000/=
Total	Grant		₹ 8,49,000/=

Research Publications

Research Papers in Scopus / Web of Science / ABDC / EBSCO Listed Journals (During the year 2017)

- 1. Bora, Leena V., and Rajubhai K. Mewada. "Photocatalytic treatment of dye wastewater and parametric study using a novel Z-scheme Ag2CO/SiC photocatalyst under natural sunlight." Journal of Environmental Chemical Engineering 5.6 (2017):5556-5565.
- 2. Bhojawala, V. M., and D. P. Vakharia. "Closed-form solution for static pull-in voltage of electrostatically actuated clamped—clamped micro/nano beams under the effect of fringing field and van der Waals force." Materials Research Express 4.12 (2017):126306.
- 3. Nimkar, Samir C., Rajubhai K. Mewada, and Marc A. Rosen. "Exergy and exergoeconomic analyses of thermally coupled reactors for methanol synthesis." International Journal of Hydrogen Energy 42.47 (2017): 28113-28127.
- 4. Trivedi, Kedar, and Dhaval Pujara. "Mutual coupling reduction in wideband tree shaped fractal dielectric resonator antenna array using defected ground structure for MIMO applications." Microwave and Optical Technology Letters 59.11 (2017): 2735-2742.
- 5. Patel, Mahesh A., and Santosh C. Vora. "Analysis of a Fall-Back Transverse-Flux Permanent-Magnet Generator." IEEE Transactions on Magnetics 53.11 (2017): 1-5.
- 6. Savani, Vijay, and N. M. Devashrayee. "Analysis and design of low-voltage lowpower high-speedádouble tail current dynamic latch comparator." Analog Integrated Circuits and Signal Processing 93.2 (2017): 287-298.
- 7. Singh, Ravindra Kumar, and Dhaval Pujara. "Design of an UWB (2.1–38.6 Ghz) circular microstrip antenna." Microwave and Optical Technology Letters 59.11 (2017): 2762-2767.
- 8. Singh, Shailendra, et al. "Formulae for determining heterodyne system spurious frequencies that coincide with desired output frequency." Radioelectronics and Communications Systems60.11 (2017): 479-484.
- 9. Tekwani, P. N., and M. T. Shah. "Current Controller for Multi-level Front-end Converter and Its Digital Implementation Considerations on Three-level Flying Capacitor Topology." Journal of the Institution of Engineers (India): Series B 98.5 (2017): 449-459.
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- 11. Jagad, P. I., B. P. Puranik, and A. W. Date. "A Numerical Analysis of Fluid-Structure Interaction Problem with a Flow Channel Embedded in a Structural Material." Proc Indian Natn Sci Acad. Vol. 83. No. 3. 2017.
- 12. Nasiruddin, Ibraheem, et al. "Non-linear recurrent ANN-based LFC design considering the new structures of Q matrix." IET Generation, Transmission & Distribution 11.11 (2017): 2862-2870.
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- 15. Patel, Chirag K., et al. "Structural phases, magnetic properties and Maxwell–Wagnertype relaxation of $CoFe_2O_4/Sr_2Co_2Fe_{12}O_{22}$ ferrite composites." Materials Research Express 4.7 (2017): 076105.
- 16. Sahu, Rupali, et al. "Structural optimization of a space mirror to selectively constrain optical aberrations." Structural and Multidisciplinary Optimization 55.6 (2017): 2353-2363.
- 17. Soni, B. D., et al. "Application of BDD and DSA electrodes for the removal of RB 5 in batch and continuous operation." Journal of water process engineering 17 (2017):11-21.
- 18. Shah, Dhaval, Dilip Kumar Kothari, and Anjan K. Ghosh. "Bit error rate analysis of the K channel using wavelength diversity." Optical Engineering 56.5 (2017).
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- 20. Khakhar, Mona, Jayesh P. Ruparelia, and Anjana Vyas. "Assessing groundwater vulnerability using GIS-based DRASTIC model for Ahmedabad district, India." Environmental Earth Sciences 76.12 (2017): 440.
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- 24. Raval, Gaurang, Madhuri Bhavsar, and Nitin Patel. "Enhancing data delivery with density controlled clustering in wireless sensor networks." Microsystem Technologies 23.3 (2017): 613-631.
- 25. Sharma, Gulshan, Khaleequr Rehman Niazi, and Ramesh C. Bansal. "Adaptive fuzzy critic based control design for AGC of power system connected via AC/DC tielines." IET Generation, Transmission & Distribution 11.2 (2017): 560-569.
- 26. Trivedi, Kedar, and Dhaval A. Pujara. "Design and Development of a Wideband Fractal Tetrahedron Dielectric Resonator Antenna with Triangular Slots." Progress In Electromagnetics Research 60 (2017): 47-55.
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- 31. Makwana, Pratik, and Absar Lakdawala. "CFD Analysis of Particle Laden Flow in a Cyclone Separator Using RANS and LES Methodologies." Fluid Mechanics and Fluid Power–Contemporary Research. Springer, New Delhi, (2017). 669-678.
- 32. Patel, Paresh D., et al. "Experimental investigation on reduction of NOx emission of compression ignition engine fuelled with bio-diesel and diethyl ether." International Journal of Global Warming 11.4 (2017): 431-448.
- 33. Shah, H. S., and J. P. Ruparelia. "Studies on Potential of Water Quality Trading at Industrial Zone Palsana, Surat." International Journal of Applied Engineering Research 12.15 (2017): 5359-5366.
- 34. Gehani, Aarti, Prashasti Agnihotri, and Dhaval A. Pujara. "Analysis and Synthesis of Multiband Sierpinski Carpet Fractal Antenna Using Hybrid Neuro-Fuzzy Model." Progress In Electromagnetics Research 68 (2017): 59-65.
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Books Published

Sr. No.	Name of the Faculty	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Sudeep Tanwar, S K Singh	Mobile Computing	Bhavya Publication, Delhi	978-93- 83992-25-6	2017
2.	Sudeep Tanwar, S K Singh, Sudhanshu Tyagi	Big Data Analytics	Bhavya Publication, Delhi	978-93- 83992-25-8	2017
3.	Akhilesh Nimje, D P	Electrical Circuit Analysis and	New Age International	978-93- 86418-08-1	2017

	Kothari	Synthesis			
4.	Patel M.,	Performance Modelling	Springer,	978-981-	2017
	Chaudhary	and Optimization of	Singapore	10-5025-1	
	S., Sanjay	Live Migration of			
	Garg	Virtual Machines in			
	_	Cloud Infrastructure			
5.	Ratna Rao	Flip Over the English	Neelkamal	978-93-	2018
		Classroom	Publications	86725-40-0	

Book Chapters Published

Sr. No.	Name of the Faculty	Name of the Book Chapter	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	1Jignesh Patel, Rohit Singh, Alpesh Patel, Harsh Kapadia	Industrial Internet of Thing Based Smart Process Control Laboratory: A Case Study on Level Control System	Information and Communication Technology for Intelligent Systems	Springer International Publishing	2190- 3018	2017
2.	Sapan Mankad, Nirali Naik, Priyank Thakkar	Investigating the Effect of Varying Window Sizes in Speaker Diarization for Meetings Domain	Smart Innovation, Systems and Technologies	Springer, Cham	2190- 3018	2017
3.	Priyank Thakkar, Krunal Varma, Vijay Ukani	Outcome Fusion - Based Approaches for User -Based and Item-Based Collaborative Filtering	Information and Communication Technology for Intelligent Systems (Ictis 2017) - Volume 2	Springer, Cham	978-3- 319- 63644- 3	2017
4.	Neha Patni, Yug Saraswat, Shibu G. Pillai	Microbial Polyesters: Production and Market	Handbook of Composites from Renewable Materials	Scrivener Publishing Ltd. (Wiley)	978-1- 119- 22379- 5	2017
5.	Sudeep Tanwar, Tilak Ramini, Sudhanshu Tyagi	Dimensionality Reduction Using PCA and SVD in Big Data: A Comparative Case Study	Lecture Notes of The Institute for Computer Sciences, Social Informatics and Telecommunicati ons Engineering	Springer International Publishing	978-3- 319- 73711- 9	2017
6.	Sudeep Tanwar, Sudhanshu Tyagi, Sachin Kumar	The Role of Internet of Things and Smart Grid for the Development of a Smart City	Lecture Notes i n Networks and Systems	Springer, Singapore	978- 981-10- 5522-5	2017
7.	Nishanth Patel, Ronak Kamdar, Paresh Padheriya,NiraP	Experimental Study on Behaviour of Wet Precast Beam to	Managing Construction and Related Sectors - Challenges,	National Institute o f Construction Management	978-93- 5268- 179-2	2017

				rver sitey it		
	anchani, Digesh Joshi, Paresh Patel	Beam Connections	Opportunities, Status and Trends (Cost) in India, Volume -I Issues in Construction Materials, Methods and Processes	and Research (NICMAR)		
8.	Sandeep Malhotra	Transient Simulation of Vapor Liquid Two Phase Flow Inside Single Tube Condenser Using Quazi Linearization Approach	Advanced Mathematics: Theory & Applications	Research India Publication	978-93- 84443- 20-7	2017
9.	Hemang Dalwadi, Harsh Naik, Krishna Patel, Pareejat Shah, Rahul Pasawala, Tazeen Pathan	Identification and Prioritization of Accident Black Spots on NH147 Using GIS	Managing Construction and Related Sectors - Challenges, Opportunities, Status and Trends (Cost) in India, Volume -II - Advances in Project, Real Estate a nd Infrastructure Management	National Instit ute of Construction Management and Research	978-93- 5268- 179-2	2017
10.	Vijay Ukani, Priyank Thakkar,Vishal Parikh	Routing Protocols for Wireless Multimedia Sensor Networks: Challenges and Research Issues	Smart Innovation, Systems and Technologies	Springer International Publishing	978-3- 319- 63645- 0	2017
11.	Vijay Ukani, Sanjay Garg, Chirag Patel, Hetali Tank	Efficient Vehicle Detection and Classification f or Traffic Surveillance System	Communications in Computer and Information Science	Springer Nature	978- 981-10- 5427-3	2017
12.	Darshit Upadhyay, Haresh Makwana, Jayesh Barve, Rajesh Patel	Strategies for Producer Gas Cleaning i n Biomass Gasification: A Review	Second International Conference on Recent Advances in Bioenergy Research	Springer Singapore	978- 981-10- 6107-3	2017
13.	Dhaval Shah, Shashikat Joshi	Taguchi Method: Plasma Cutting Parameters	Encyclopedia of Plasma Technology	CRC Press, Taylor and Francis	978-14- 66500- 59-4	2017
14.	Vipul Chudasama, Dhaval Tilala, Madhuri Bhavsar	SLA Management in Cloud Federation	Smart Innovation, Systems and Technologies	Springer, Cham	2190- 3018	2017
15.	Vipul Chudasama, Jinesh Shah,	Weight Based Workflow Scheduling in	Smart Innovation, Systems and Technologies	Springer Verlag	2190- 3018	2017

	Madhuri Bhavsar	Cloud Federation				
16.	Foram Chandarana	The City: A Case for the New Weird Novel	New Voices in World Literatures on English	Vishwabharati Research Centre	978-93- 86242- 88-4	2017
17.	Ankit Thakkar	Deal: Distance And Energy Based Advanced Leach Protocol	Smart Innovation, Systems And Technologies	Springer International Publishing	978-3- 319- 63645- 0	2017
18.	Ankit Thakkar	A Simple a nd Efficient Text - Based Captcha Verification Scheme Using Virtual Keyboard	Smart Innovation, Systems and Technologies	Springer International Publishing	978-3- 319- 63645- 0	2017
19.	Jayati Dave, Yusra Shaikh, Taŋni Vyas, Anuja Nair	Mobicloud: Performance Improvement, Application Models and Security Issues	Smart Innovation, Systems and Technologies	Springer	2190- 3018	2017
20.	Ratna Rao	Use of Technology in Higher Secondary English Classrooms	Secondary Education Issues and Challenges	Altar Publishing House	978-93- 86745- 10-5	2017
21.	Ratna Rao	Eclectic Method of Teaching in English Classroom	New Voices in World Literature	Vishwabharati Research Centre	978-93- 86242- 888-4	2017
22.	Ankit Sharma, Dipak Adhyaru, Tanish Zaveri	A Novel Cross Correlation Based Approach for Handwritten Gujarati Character Recognition	Proceedings of First International Conference on Smart System, Innovations and Computing	Springer	978- 981-10- 5828-8	2018
23.	Amit Patel	Genetic Algorithm Based Multi - Objective Design Optimization of Radial Flux Pmbldc Motor	Artificial Intelligence and Evolutionary Computations in Engineering Systems	Springer Nature	978- 981-10- 7868-2	2018
24.	Paresh Patel, Sunil Raiyani	Shear Strengthening o f Rc Beam Using Stainless Steel Wire Mesh	Advances i n Concrete, Structural & Geotechnical Engineering	Bloomsbury India	978938 747169 6	2018
25.	Neha Patni, Pranjal Sharma, Mythilpriya Suresh, Birendrakumar Tiwari, Shibu Pillai	Polymer Based Organic Solar Cell: An Overview	Trends and Applications in Advanced Polymeric Materials	Scrivener Publishing LLC (Wiley)	978-1- 119- 36363- 7	2018
26.	Neha Patni, Neha Jain, Shibu Pillai	Polyaniline Based Sensors for Monitoring and Detection of Ammonia and Carbon Monoxide Gases	Trends and Applications in Advanced Polymeric Materials	Scrivener Publishing LLC (Wiley)	978-1- 119- 36363- 7	2018

27.	Chetna	Structural,	Magnetic Oxides	Materials	2471-	2018
	Chauhan,	Magn etic and	and Composites	Research	8890	
	Rajshree	Dielectric		Forum LLC	(Print)/	
	Jotania,	Properties of			978-1-	
	Charanjeet	Aluminum Cobalt			945291	
	Singh Sandhu	Substituted M -			-68-5	
		Type Strontium				
		Hexaferrites				
28.	Harshit Kothari,	Behaviour of	Advances in	Bloomsbury	978-93-	2018
20.	Paresh Patel,	Precast Portal	Concrete,	Broomsoury	87471-	2010
	Digesh Joshi	Frame Subjected	Structural &		69-6	
	Digesii Josiii	to Lateral	Geotechnical		07-0	
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		Loading: An	Engineering			
		Experimental				
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29.	Bhakti	Acceleration o f	Intelligent	Springer,	978-	2018
	Sonawane,	CNN-Based Facial	Computing and	Singapore	981-10-	
	Priyanka	Emotion Detection	Information and		7244-4	
	Sharma	Using Nvidia GPU	Communication			
30.	Hiral Thakar,	Improvement of	Parul University	Mc - Graw	978-93-	2018
	Aditya	Subgrade Soil	International	Hill	87572-	
	Bakarania,	Using Coir Fiber	Conference on	Publication	66-9	
	Deep Dobaria,	And Blasting Sand	Engineering &			
	Poojan	: An Experimental	Technology:			
	Mahadevia	Study	Smart			
		, and the second	Construction			
31.	Akhilesh Nimje,	Voltage Stability	Silicon, Photonics	Springer	978-	2018
	Pankaj	Analysis for	and High		981-10-	
	Sawarkar	Planning and	Performance		7656-5	
		Operation of	Computing		, , , , ,	
		Power System	Companing			
32.	Akhilesh Nimje,	Application of	Silicon, Photonics	Springer	978-	2018
32.	Praful	Distributed Static	and High	Springer	981-10-	2010
	Kumbhare	Series	Performance		7656-5	
	Kumonarc	Compensator for	Computing		7030-3	
		Improvement of	Computing			
		Power System				
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33.	Paresh Patel, V.	Strengthening of	Advances in	Bloomsbury,	978-93-	2018
	K. Singh	Axially Loaded	Concrete,	India	87471-	
		Circular Concrete	Structural and		69-6	
		Column Using	Geotechnical			
		Stainless Steel	Engineering			
		Wire Mesh				
		(SSWM) -				
		Experimental				
		Investigation,				
		Analytical				
		Approach and				
		Installation				
		Guidelines				
34.	Vivek Kumar	Efficient Resource	Future Internet	Springer	/978-3-	2018
	Prasad, Madhuri	Monitoring and	Technologies and	(Lnicst,	319-	
	Bhavsar	Prediction	Trends	Volume 220)	73711-	
		Techniques in an			9	
		Iaas Level of				
		Cloud Computing:				
		Survey				
35.	Vivek Kumar	Exhausting	Future Internet	Springer	/978-3-	2018
J 33.	VIVEK NUIHAF	Exhausting	ruture internet	Springer	/7/0- 3 -	2010

36.	Prasad, Madhuri Bhavsar Gaurang Raval, Zalak Prajapati, Aemi Kalaria,	Autonomic Techniques f or Meticulous Consumption of Resources at an Iaas Layer of Cloud Computing Open Issues in Named Data Networking: A	Technologies and Trends Information and Communication Technology For	(Lnicst, Volume 220) Springer Nature	319- 73711- 9 2190- 3018	2018
	Vijay Ukani, Sharada Valiveti	Survey	Intelligent Systems			
37.	Rupal Amit Kapdi, Mehul Raval	Deep Learning for Automated Brain Tumor Segmentation in MRI Images	Soft Computing Based Medical Image Analysis	Elsevier	978-0- 12- 813087 -2	2018
38.	Vaibhavi Patel, Rupal Kapdi	Segmentation Using K -Means FCM Hybrid Technique	Ambient Communications and Computer Systems. Advances i n Intelligent Systems and Computing	Springer	978- 981-10- 7385-4	2018
39.	Ratna Rao	Eclectic Method of Teaching in English Classroom	English Language Teaching -Issues and Innovations	Aadi Publishers	978-93- 87799- 00-4	2018
40.	Madhuri Bhavsar, Vipul Chudasama, Dhaval Tilala	Sla Management in Clod Federation	Information and Communication Technology for Intelligent Systems	Springer International Publishing	978-3- 319- 63644- 3	2018
41.	Madhuri Bhavsar, Vipul Chudasama, Jignesh Shah	Weight Based Workflow Scheduling in Cloud Federation	Information and Communication Technology for Intelligent Systems	Springer International Publishing	978-3- 319- 63644- 3	2018
42.	Mayur Patel, Kush Patel, Akshay Patel, RonakPrajapati, Vipul Vaniya, UtsavKoshti	Study of Sawdust Concrete Blocks Properties as Construction Materials	Advances in Concrete, Structural and Geotechnical Engineering	Bloomsbury India	978-93- 87471- 69-6	2017

Patents Filed

Sr. No.	Name of the Inventors	Title of the Patent	Year	Status
1.	Prof. Niranjan Devashrayee, Prof. Rajubhai K Mewada, Ms. Mamta Saiyad	Radiation Hardened Epoxy/graphite Polymer Composite	2017	Filed
2.	Prof. Rajesh Patel, Prof. Sanjay Jain,	Performance Enhanced Pump as Turbine	2017	Filed

	Prof. Ankur Patel, Prof. Nihar Thakkar, Prof. Sanket Chaudhari, Prof. Chirag Sonvane			
3.	Prof. Urmil Dave, Prof. Sonal Thakkar	Precast Products made using Bottom Ash and Fly Ash for Rural Pavements and other Infrastructure in India	2017	Published
4.	Mr. Pallav Gandhi, Prof. Dipak Adhyaru	Smart Modbus Protocol based Device	2017	Published
5.	Prof. Digesh D. Joshi, Prof. Harsh K. Kapadia, Prof. Alpesh I. Patel, Dr. Jayesh J Barve, Prof. Paresh V. Patel, Prof. Sharadkumar P. Purohit	Automated Synchronized Crack Monitoring System	2017	Published

Ph.D. Awarded

Sr. No.	Name of the Student	Name of the Guide / Supervisor	Title of Thesis
1.	Gandhi Sanjay P.	Dr. S. S. Patel	Catalytic Carbon Dioxide Reforming of Methane to Synthesis Gas
2.	Modi Kiritkumar J.	Dr. Sanjay Garg	Approches for Discovery, Selection and Composition for Heterogeneous Web Services Using Semantic Web
3.	Mungla Mitesh J.	Dr. D. S. Sharma	Forward and Inverse Dynamic Analysis of Multiple Span Cracked Beam
4.	Dave Jatinkumar M.	Dr. D. S. Sharma	Stress Analysis of Symmetrical and Unsymmetrical Laminates Having Cut-outs of Arbitrary Shape Subjected to Different Loading Conditions
5.	Chauhan Mihir M.	Dr. D. S. Sharma	Stress Analysis of Finite Laminated Composite Plate with Discontinuities
6.	Patel Pareshkumar D.	Dr. R. N. Patel	Experimental Investigation on Life Cycle Analysis and Combustion Characteristic of CI Engine Operating on Biodiesel with Additives
7.	Swati Jain	Dr. Tanish Zaveri	Design and Development of Content Based Image Retrieval Frameworks for Remote Sensing Domain: Issues and Challenges

8.	Arundhati Misra	Dr. B. Kartikeyan	Quantitative Analysis of Approaches and Development of Optimal Wavelet based Denoising Technique for SAR Data
9.	Varinder Kumar	Dr. P. V. Patel	Strengthening of Axially Loaded Circular Concrete Columns using Stainless Steel Wire Mesh (SSWM)
10.	Kotecha Radhika N.	Dr. Sanjay Garg	Privacy-Preserving Classification of Horizontally Partitioned Data Streams
11.	Gajjar Ruchi I.	Dr. Tanish Zaveri	Spectral based Blur Classification and Parameter Estimation Approaches for Image Restoration

Research Awarded

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty Awardee	Recognition / Honor / Award	Name of the Organization / Event	Award Category
1.	Prof. Leena Bora	Best Paper Award	B. K. School of Business Management	1st Prize
2.	Prof. Femina Patel	ISTE - IPCL Best M.Tech. Thesis in Chemical Engineering (as Guide)	Indian Society for Technical Education, New Delhi	1st Prize
3.	Prof. Neha Patni	Best Presentation Award	Indian Institute of Technology, Gandhinagar	1st Prize
4.	Prof. P. N. Tekwani and Prof. Siddharthsingh Chauhan	Prof. Muhammad H. Rashid Best Paper Award	Amrita Vishwa Vidyapeetham University, Amritapuri, Kollam, Kerala, India	1st Prize
5.	Prof. P. N. Tekwani	Awarded the Best Technical Paper	Birla Vishvakarma Mahavidyalaya (BVM) Engineering College, Anand, India	1st Prize
6.	Prof. Mahesh Yeolekar	Young Scientist Award	International Science Community Association	1st Prize
7.	Prof. Neha Patni	Best Paper Award	School of Petroleum Management Pandit Deendayal Petroleum University	1st Prize
8.	Prof. Parin Shah	ACTI Award for	The Association of	1st Prize

		Innovative Research in Dyestuff by an Institution and Industry in Gujarat	Chemical Technology (India)	
9.	Prof. Jayesh Ruparelia	ISTE - IPCL Best M.Tech. Thesis in Chemical Engineering (as Guide)	Indian Society for Technical Education, New Delhi	2nd Prize
10.	Prof. Saurin Parikh	2 nd Place at 8 th Annual Graduate Research Day Competition	Florida Atlantic University, USA	2nd Prize
11.	Prof. P. N. Tekwani	Awarded Third Prize for the Best Technical Paper	Birla Vishvakarma Mahavidyalaya (BVM) Engineering College, Anand, India	3rd Prize
12.	Prof. Saurin Parikh	Third Place at Three Minutes Research Competition	Computer and Electrical Engineering and Computer Science Department, Florida Atlantic University, USA	3rd Prize
13.	Prof. P. N. Tekwani	Rajarambapu Patil National Award for the Promising Engineering Teacher f or Creative Work done in Technical Education	Indian Society for Technical Education, New Delhi	Citation
14.	Prof. Madhuri Bhavsar	Best Engineering - College Teacher Award	Indian Society for Technical Education, New Delhi	Citation
15.	Prof. Paresh Patel Prof Sharad Purohit	E P Nicolaides Prize for the Paper	Institution of Engineers (India)	Trophy
16.	Prof. P. N. Kapil	Dronacharya Award For E -Baja Team Faculty Mentor	SAE Baja India	Trophy
17.	Prof. Sanjay Jain	Best Research Scientist for Overall Contribution in Activities of Research	Nirma University	Cash
18.	Prof. Saurin Parikh	Student Travel Scholarship	Awarded by Special Interest Group on Multimedia, Association for Computing Machinery	Cash
19.	Prof. Saurin Parikh	Graduate Student Thesis and Dissertation Scholarship Award	Florida Atlantic University, USA	Cash

Travel Grants Received by the Faculty Members

Sr. No.	Name of the Faculty Member	Purpose of the Visit	Name of the Funding Agency	Name of the Country
1.	Prof. Mayur Makhesana	Attending International Conference	Science and Engineering Research Board - DST	USA
2.	Prof. Dhaval Pujara	Presenting Research Papers	Science and Engineering Research Board - DST and Indian National Science Academy (INSA)	France
3.	Prof. P.N. Kapil	Attending International Conference and Presenting Research Paper	Nirma University	United Kingdom
4.	Prof. Pooja Shah	Attending International Conference (IGARSS) and Presenting Research Paper	Science and Engineering Research Board - DST	USA
5.	Prof. Saurin Parikh	Attending International Conference and Presenting Research Paper	Nirma University	United Kingdom

Conferences / Seminars / Workshops / Lectures

Nirma University International Conference on Engineering – NUiCONE 2017

Nirma University International Conference on Engineering (NUiCONE), the flagship event of the Institute of Technology was organized during November 23-25, 2017. The conference was attended by 589 participants. The theme of the conference was 'Technology Drivers-The Growth Engine', and was also focused on 'Green Technology and Innovations' to sensitize the researchers, industry professionals and students towards environment issues. There were total 19 themes to cater to the diversified needs of the academia and industry. The conference received active participation from across the country and abroad. Around 290 research papers were received from various disciplines and out of them 90 papers were accepted for oral presentation after stringent quality checks. These papers will be published by two reputed publishers 'Institute of Electrical and Electronics Engineers' and 'Taylor and Francis'. The participants were from Industry, Academia and Researchers from reputed organisations like IITs, NITs, IPR, ISRO, Northumbria University in UK, University of New Brunswick in Canada and University of Victoria in Canada. Exhibition on 'Green Technology and Innovations' was one of the attractions of the conference. In the exhibition, Institute of

Plasma Research, Gandhinagar; The Bhabha Atomic Research Centre (BARC), Mumbai; and Raja Ramanna Centre for Advanced Technology (RRCAT), Indore (unit of Department of Atomic Energy) displayed details on technologies like 'Plasmas and its Applications', 'LASER Technology and its Applications' and 'India's first 2 GeV Particle Accelerator INDUS-II programme'. J K Lakshmi Cements exhibited their in-house innovations for conservation of energy and tapping the environmental resources. Some of these innovations were developed by students of Institute of Technology. Petroleum Conservation Research Association (PCRA) exhibited awareness material related to environmental pollution and its remedies.

National Conference on Recent Advances and Future Trends in Chemical Technology (RAFTCT-17)

The National Conference on Recent Advances and Future Trends in Chemical Technology (RAFTCT-17) was organized by Chemical Engineering Department on September 16, 2017. Dr. Narottam Sahoo, Advisor and Member Secretary, Department of Science and Technology, Government of Gujarat was the Chief Guest of the inaugural function. Dr. Ramesh L. Gardas, Department of Chemistry, IIT Madras and Dr. Sameer V. Dalvi, Chemical Engineering Department, IIT Gandhinagar were the keynote speakers of the conference. In all, 70 posters were presented during the poster presentation session and 35 papers were presented in the oral presentation session.

Seminar / Workshop / Training Programmes Organized by the Institute

NVIDIA Deep Learning Institute (Ambassador) and Accelerated Computing Workshop

NVIDIA in association with Computer Engineering Department conducted a Two-Day Workshop on 'Deep Learning and GPU Programming' during March 16-17, 2018. The workshop was coordinated by Dr. Priyanka Sharma, Professor, Computer Engineering Department and Dr. Priyank Thakkar, Associate Professor, Computer Engineering Department. The workshop was attended by 60 UG, PG, PhD students and faculty members of Computer Engineering, Information Technology and Electronics and Communication Engineering Department. Mr. Unnikrishnan (Business Development Director, NVIDIA) and Mr. Bharat Sharma (Senior Solution Architect conducted the workshop. There were hands-on sessions with primary focus on Deep Learning and GPU Programming Models in the workshop.

Seminar on 'Radiation Effects in Semiconductor Devices, Physics, Modelling and Mitigation'

A One-Day Research Seminar on 'Radiation Effects in Semiconductor Devices, Physics, Modelling and Mitigation' was organized by the Electronics and Communication Engineering Department on August 02, 2017. Dr. Shen Chen, Manager, Cogenda Pvt. Ltd. and Mr. Amit Saini delivered the technical sessions. The seminar was attended by 70 participants.

Short Term Training Programmes

The India Society for Technical Education (ISTE) approved Short Term Training Programmes under the aegis of Centre for Quality Assurance and Academic Development (CQAAD) were organized during June-July 2017. The faculty members of Institute of Technology actively participated in the programme. Following are the details of the programmes organized by different departments.

Sr. No.	Name of the Department	Title of the Training	Duration	Details of the Programme
		Programme		
1.	Civil Engineering Department	Construction Practices on Wheels	June 05-17, 2017	The content of Training programme was focused on learning state of art construction technologies exercised at construction sites for various structures such as pre-engineered building, Green building, Institutional building, Marine structures, Thermal power plant, Road construction, Metro rail project, Hydro power project, etc.
2.	Electrical Engineering Department	Recent Advances and Future Technologies for Power Electronic Controlled Electrical Power Systems	June 27 to July 07, 2017	The topics covered during the Training Programme included electrical power system, UHVAC, HVDC, large scale renewable penetration, new protection options and smart grid developments. Further, system modeling, generation and load forecasting, power system transients, state-ofart protection, the use of computer and Artificial Intelligence techniques for solving power system issues were discussed.
3.	Electronics and Communication Engineering Department	Signal Processing and Artificial Intelligence	June 27 to July 07, 2017	The topics covered during the training programme included basics and applications of signal processing and machine learning. Several case studies related to algorithms for machine learning and signal processing were covered.
4.	Mechanical Engineering Department	Current Practices in Production and Industrial	June 27 to July 07, 2017	The content of the training programme focused on Industrial manufacturing

		Engineering		practices, challenges and solution for the next generation design, techniques for sustainable production.
5.	Computer Science and Engineering Department	Research Avenues in Computational Intelligence and its applications	June 27 to July 07, 2017	Looking to the future of Artificial Intelligence (AI) and its subset- Computational intelligence, the training programme discussed the theory and algorithms related to it in depth. The major highlights of the programme were implementation and applications of AI in various domains of engineering.

Research Talks / Lectures Organized by the Institute

It is a regular practice at the Institute of Technology to arrange research related expert talks by eminent personalities from Industry and Academia. It ensures that the faculty members and students stay abreast with the changing technologies. Following are the details of some of the talks/lectures organized by the departments under Institute of Technology.

Department of Electrical Engineering

- 1. 'Use of Counter Evaluation Programme in Power Electronic Controlled Power System' by Dr. Bhavik Suthar, Professor, Government Engineering College, Bhuj on July 01, 2017.
- 2. 'Reactive power compensation and Harmonic filtering' by Dr. Ranjit Mahanty, Professor, IIT, Banaras Hindu University on July 03, 2017.
- 3. 'Smart Grid' by Mr. R J Vala, Research and Development, Central Power Research and Development Cell, GUVNL, Gandhinagar on July 04, 2017.
- 4. 'Real Time Simulation in Power System' by Mr. Prashant Tiwari, OPAL–RT on July 04, 2017.
- 5. 'Stability and Control of Switched Linear and Time Delay System' by Dr. Rajeeb Dey, Professor, NIT Silchar on July 05, 2017.
- 6. 'Control of DC-DC Buck Converter using Sliding Mode Control' by Dr. Axay Mehta, Professor IITRAM, Ahmedabad on July 05, 2017.
- 7. 'Technical Challenges in Integration of Large Scale Wind Farm to Grid', 'Dynamic Deloading of Wind Generators', 'Frequency Sensitive Analysis of Load Damping coefficient in Wind Integrated Power System', 'Optimal Power Flow Management of Grid Connected Photovoltaic Battery System' by Dr. C. N. Bhende, Professor, IIT Bhubaneswar on July 06, 2017.
- 8. 'Large Scale Synchronous Generator for Super Critical Power Projects and Capability Curves' by Mr. Dinesh Shukla, L&T Power, Vadodara on August 10, 2017.
- 9. 'Power System Operation under Deregulated Environment and Security Analysis: Opportunities and Challenges' by Dr. C. K. Chanda, Professor, Indian Institute of Engineering Science and Technology, West Bengal on October 06, 2017.

- 10. 'Emerging Technologies for Solar Inverter' by Mr. Sachin Borisa, Hitach Hi-Rel Power Electronics Pvt. Ltd, Gandhinagar on November 25, 2017.
- 11. 'State-of-the-Art Technology used for Electric Vehicles' by Mr. B. K. Vaishya, Electrotherm India (Pvt.) Ltd. Ahmedabad on November 25, 2017.
- 12. 'Practices and Technologies in Solar industry' by Mr. Aziz Popat, Targent Solar, Queensland, Australia on January 11, 2018.
- 13. 'Power System Optimization using Meta-heuristic Methods' by Dr. Kartik Pandya, Professor, CHARUSAT, Changa on February 03, 2018.
- 14. 'Power Quality: Issues, Sources, Mitigation and Standards' by Dr. J. G. Jamnani, Professor, PDPU, Gandhinagar on February 27, 2018.
- 15. 'Trends and Development in PM Machines' by Mr. Sanjay Mahagaokar, Professor, IIT Banaras Hindu University, Varanasi on March 16, 2018.

Department of Electronics and Communication Engineering

- 1. 'Verification and Validation Techniques of Digital VLSI Designs' by Mr. Parimal Govani, Scientist SAC, ISRO, NITAA Alumni on April 01, 2017.
- 2. 'RF Mixer Design' by Dr. Sanjiv Gupta, Professor, DAIICT, Gandhinagar on April 04, 2017.
- 3. '5G networks' by Dr. Kiran Parmar, Ex. Professor, L. D. College Engineering, Ahmedabad on April 19, 2017.
- 4. 'Cognitive Radio' by Dr. Vijay Kumar Chakka, Professor, Shiv Nadar University, Greater Noida on July 21, 2017.
- 5. 'Benchmarking for Processor Architecture and Latest Trends' by Dr. Ajay Joshi, Principal Software Engineer, ARM Embedded Technologies Ltd., Bangalore on August 08, 2017.
- 6. 'Developing Real Time Signal Processing and Communications Systems with MATLAB and Simulink' by Dr. Amod Anandkumar, Sr. Team Lead, Mathworks Ltd, Bangalore on November 1, 2017.
- 7. 'Advances in Digital VLSI Design' by Dr. Biswajeet Mishra, Professor, IIT Gandhinagar on November 10, 2017.
- 8. 'Introduction to Hyperspectral Data with Focus on Spectral Unmixing' by Dr. Sumit Chakravarti, Scientist SAC-ISRO, Ahmedabad on December 11, 2017.
- 9. 'Applications of High Performance Computing Platforms' by Dr. Nitant Dubey, Scientist SAC-ISRO, Ahmedabad on January 04, 2018.
- 10. 'Spectrum Sensing on Cognitive Radio' by Dr. Vijay Kumar Chakka Professor, Shiv Nadar University, Greater Noida on January 01, 2018.
- 11. 'Microstrip Lines for RF Circuit Design' by Mr. Shailendra Singh, Scientist SAC-ISRO, Ahmedabad on February 03, 2018.
- 12. 'New Millimeter Wave Technology' by Mr. Bhavin Kharadi, Alumni NITAA on February 02, 2018.
- 13. 'Layout of ANALOG and MIXED Signal Circuits' by Dr. Dipankar Nagchoudhary, Ex. Professor, IIT Delhi on February 02, 2018.

Department of Mechanical Engineering

- 1. 'Heat Exchanger Design' by Mr. Ashutosh Shukla, Managing Director, Aerotherm Products Ltd., Ahmedabad on April 19, 2017.
- 2. 'Modeling of Bio-inspired Jellyfish Vehicle for Energy Efficient Propulsion' by Dr. Keyur Joshi, Professor, Virginia Tech University, USA on July 31, 2017.

- 3. 'Quality & Quality tools and Importance of Quality for Strategic Planning' by Ms. Stephanie Thompson American Quality Society (ASQ), USA on August 21,2017.
- 4. 'Performance Analysis of Reciprocating Compressors' by Mr. Vinod Bhatt, Manager Ingersoll-Rand (I) Ltd., Ahmedabad on September 27, 2017.
- 5. 'Introduction to Engineering Equation Solver' by Mr. Amar Patel, Ex. R & D Engineer, Caterpiller Inc., USA, NITAAAlumni on November 13,2017.
- 6. 'Overview of Indian and International Standards, Standards used in Mechanical and Chemical Engineering' by Dignitaries from BIS (Bureau of Indian Standards) on November 11, 2017.
- 7. 'Standards followed in Designing Pressure Vessels' by Mr. P G Shah, Senior VP, Patel Airtemp Ltd, Ahmedabad on November 15, 2017.
- 8. 'Failure analysis of Pressure Vessels and Boiler Components in Shop and Site' by Dr. R Vaideeswaram, Sr. Manager, BHEL, Tiruchirapalli on December 02, 2017.
- 9. 'Applications of CFD and FEA to Process Equipment' by Mr. Krunal Patel, Application Engineer CFD/FEA, Fluid Codes, Saudi Arabia on February 23, 2018.

Department of Civil Engineering

- 1. 'Earthquake Resistant Masonry Shear Wall: Key Concept and Research Studies' by Prof. Svetlana Brzev, Visiting Professor, IIT Gandhinagar on April 04, 2017.
- 2. 'Structural Assessment of Bridges' by Dr. Kunal D. Kansara, Principal Engineer (Assessment & Design), XEIAD, UK on April 25, 2017.
- 3. 'Sustainable Development from Efficient Utilization of Resource' by Prof. Prakash Nanthgopalan, Department of Civil Engineering, IIT Bombay on April 29, 2017.
- 4. 'Smart Water Systems and Biological Treatment of Waste Water and Decentralized Waste Water Treatment System' by Dr. Banu Ormeci, Professor, Department of Civil and Environmental Engineering, Carleton University, Canada on November 10, 2017.
- 5. 'Fibre use in Concrete An examination of novel fibre types with regard to enhanced performance' by Dr. Alan Richardson, Reader, Northumbria University, UK on November 23, 2017.
- 6. 'Non-Contact Non-Destructive Evaluation Techniques for Structural Health Monitoring' by Dr. Rishi Gupta, Associate Professor, University of Victoria, Canada on November 24,2017.
- 7. 'Damage Detection in Structure using Particle Swarm Optimization Method' by Dr. Sudhirkumar Barai, Professor, IIT Kharagpur on November 25, 2017.
- 8. 'High Performance Concrete for High Rise Construction' by Mr. Suhas S. Dhuri, Director, e-cube Consultants, Mumbai on February 03, 2018.
- 9. 'Earthquake Resistant Confined Masonry Shear Walls' by Prof. Svetlana Brzev, Adjunct Professor, IIT Gandhinagar on February 16, 2018

Department of Computer Science & Engineering

- 1. 'Recent Trends in Speech Signal Processing' by Prof. Lipika Day, Principal Scientist, TCS, New Delhi on April 11, 2017.
- 2. 'Recent Trends in Speech Signal Processing' by Dr. Hemant Patil, Professor, DA-IICT Gandhinagar on April 12, 2017.
- 3. 'Algorithms Complexity and its Importance in Modern Application' by Dr. Deepak Garg, Professor, Bennett University, Greater Noida on April 21, 2017.
- 4. 'Convergence of Big Data, Artificial Intelligence, and High Performance Computing' by Dr. Virendra Bhavsar , Honorary Research Professor and Professor Emeritus,

Faculty of Computer Science, University of New Brunswick, Canada on November 23, 2017.

- 5. 'Human-Centric Applications using Signal Processing Techniques' by Dr. Uttama Lahiri Associate Professor, IIT, Gandhinagar on November 25, 2017.
- 6. 'Technical Writing of Research Papers: Overview and Guidelines' by Dr. D. C. Jinwala Professor, Computer Engineering Department, SVNIT, Surat on January 23, 2018.
- 7. 'Data Sciences' by Dr. Raghuvendra Professor of Electrical Engineering and Computer Science, University of Southern California, Los Angeles on March 13, 2018.

Department of Instrumentation and Control Engineering

- 1. 'Control and Automation' by Dr. Ravi N Banavar, Professor, Electrical Engineering Department, IIT Gandhinagar on April 05, 2017.
- 2. 'Industrial Automation' by Mr. Kirnesh K Patel, Sr. Process System Engineer, Saudi Aramco ExxonMobil Refinery (SAMREF), Yanbu on July 25, 2017.
- 3. 'Instrumentation in Refinery and Gas Sector' by Mr. Hitesh Madhwani, Control System Engineer, Qatar Gas, Qatar on August 09, 2017.
- 4. 'IEC Standards Programming Languages for PLC' by Mr. Rohit Singh, Application Engineer, Neutron System Pvt. Ltd., Ahmedabad on August 14, 2017.
- 5. 'Selection of Flow Measurement Device for Industrial Application' by Mr. Haresh Bhatt Ex. Project Manager, Atul Pvt. Ltd., Valsad on January 30, 2018.

Department of Chemical Engineering

- 1. 'Green Solvents Ionic Liquids' by Dr. Ramesh Gardas, Associate Professor, IIT Chennai on September 16, 2017.
- 2. 'Nano Fluids' by Dr. Sameer Dalvi, Associate Professor, IIT Gandhinagar on September 16, 2017.

Talks organized under Indian Society for Technical Education

- 1. 'Cyber Sensitization' by Mr. Manan Thakker, Advocate, Cyber Lawyer and Information Security Consultant, Ahmedabad on November 11, 2017.
- 2. 'The Invisible Universe' by Dr. Jen Gupta, Astrophysicist, University of Portsmouth in UK on February 02, 2018.
- 3. 'The Era of Disruptive Technology' by Dr. Ashutosh Khanna, Professor, International Institute of Management, New Delhi on March 21, 2018.



Institute of Management - Research Statistics at a Glance

April 01, 2017 - March 31, 2018

Major Research Projects	Total	
Ongoing Major Research Project Funded	Projects Ongoing	01
by the External Funding Agencies	Total Grant	₹ 6,00,000/=
Minor Research Projects		
Ongoing Minor Research Project Funded	Projects Ongoing	01
by the External Funding Agencies	Total Grant	₹ 4,20,000/=
Completed Minor Research Projects	Projects Completed	06
Funded by Nirma University	Total Grant	₹ 3,63,200/=
Ongoing Minor Research Projects Funded	Projects Ongoing	02
by Nirma University	Total Grant	₹ 1,00,000/=
Research Publications		
Research Papers in Scopus / Web of Science	e / ABDC / EBSCO Listed	17
Journals during 2017		
Books Published		10
Book Chapters Published		20
Cases Published		06
Doctoral Research		
Ph.D. Degree Awarded		05
Total Ph.D. Students		51
Total Ph.D. Guides		20
Research Awards		
Research Awards Received by the Faculty M	1embers	11
Conferences / Seminars		
International / National Conferences Organiz	·	03
Research Talks / Lectures Organized by the	Institute	04

Research Projects

Major Research Projects

Ongoing Major Research Project Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding Agency	Grant
No.		Investigator/s		(in ₹)
1.	Preparation of District	Prof. Nikunj Patel,	Gujarat Social	6,00,000/=
	Human Development	Prof. M. Mallikarjun	Infrastructure	
	Report of Devbhumi		Development Society,	
	Dwarka District		Govt, of Gujarat	
Total	₹ 6,00,000/=			

Minor Research Projects

Ongoing Minor Research Project Funded by External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant	
No.		Investigator/s	Agency	(in ₹)	
1.	Effectiveness and	Prof. Samik Shome	Indian	4,20,000/=	
	Efficiencies of MGNREGA		Council of		
	in Five Districts of Central		Social		
	Gujarat and its Impact on		Science		
	Quality of Life		Research		
Total	Total Grant				

Completed Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project Investigator/s	Grant
No.			(in ₹)
1.	Succession Planning in Family Owned	Prof. Pingle Sameer,	60,000/=
	Businesses	Prof. Aagja Jayesh	
2.	Study on Efficiency of Stock Futures	Prof. Danak Deepak,	99,400/=
	Market in India	Prof. Patel Nikunj	
3.	Teaching-Learning Entrepreneurship - An	Prof. Bhatt Shahir,	21,000/=
	Impact Study	Prof. Bhatt Amola	
4.	Negative Externalities Caused by Aesthetic	Prof. Soni Nirmal,	32,800/=
	Pollution	Prof. Poturaju Naresh	
5.	Investors Behaviour towards Mutual Fund	Prof. Rijwani Parag,	50,000/=
	Investing with Reference to Investors in	Prof. Aagja Jayesh	
	Gujarat		
6.	Modeling Performance Measurement of	Prof. Jhaveri Chetan	1,00,000/=
	Service Organization Using Data		
	Envelopment Analysis (DEA)		
Total (Grant		₹ 3,63,200/=

Ongoing Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project	Grant
No.		Investigator/s	(in ₹)
1.	Techno-Managerial Implications of	Prof. Sahu Subrat	40,000/=
	Mobile Technology Adoption in		
	Emergency Medical Services		
2.	Marcom Practices in Retail Stores	Prof. Parashar Sapna,	60,000/=
		Prof. Jain Sanjay	
Total (₹ 1,00,000/=		

Research Publications

Research Papers in Scopus / Web of Science / ABDC / EBSCO Listed Journals (During the year 2017)

- 1. Sinha, Anamika, et al. "Professionalizing a Religio-centric Firm through Workplace Learning." Vikalpa 42.4 (2017): 251-260.
- 2. Rao, Indu. "Work-life balance for sustainable human development: Cultural intelligence as enabler." Journal of Human Behavior in the Social Environment 27.7 (2017): 706-713.
- 3. Bhaskar, A. Uday, and Somayajullu Garimella. "A Study of Predictors of Entrepreneurial Intentions: Development of Comprehensive Measures." Global Business Review 18.3 (2017): 629-651.
- 4. Singh, Anup K., and Richa Misra. "Students' Perceptions of the Value Addition of Management Education and its Enablers and Barriers." Global Business Review 18.1(2017): 226-237.
- 5. Patel, Ritesh Jayantibhai. "Co-movement and integration among stock markets: A study of 14 countries." Indian Journal of Finance 11.9 (2017): 53-66.
- 6. Jain, Rajnish, Jayesh Aagja, and Shilpa Bagdare. "Customer experience—A review and research agenda." Journal of Service Theory and Practice 27.3 (2017): 642-662.
- 7. Trada, Sandip, and Vikas Goyal. "The dual effects of perceived unfairness on opportunism in channel relationships." Industrial Marketing Management 64 (2017):135-146.
- 8. Patel, Ritesh, and Nikunj Patel. "Social and economic impact of microfinance on urban poor women: An empirical study of Ahmedabad city (India)." IIMS Journal of Management Science 8.2 (2017): 110-121.
- 9. Jain, Sanjay Kumar, and Rajesh Kumar Jain. "Evolution of GMP in Pharmaceutical Industry." Research Journal of Pharmacy and Technology 10.2 (2017): 601-606.
- 10. Parashar, Sapna, and Sanjay Jain. "Effect of Demographics on Materialism: An Empirical Study." Pacific Business Review International 10.2 (2017): 124-132.
- 11. Shah, Hardik, and Shilpa Surana Jain. "Tussle to trust: developing an appreciative climate for a hydro-power organisation in India." International Journal of Intelligent Enterprise 4.4 (2017): 345-360.
- 12. Shah, Charmi, and Praneti Shah. "Influence of Crowdfunding on Innovative Entrepreneurship Eco-Systems in India." Journal of Asia Entrepreneurship and Sustainability 13.2 (2017): 3-28

- 13. Panchal, Nilam, Vandana N. Poturaju, and Naresh N. Poturaju. "Stock trading Strategies Shaping Investors Decision Making in Cash Market: A Literature Survey." International Journal of Research in Finance and Marketing 7.6 (2017): 119-125.
- 14. Jani, Vishalkumar J. "Is Trade in Services Healthier than Trade in Goods?." Global Economy Journal 17.3 (2017).
- 15. Patel Kaushik, A. and Shah, Tejas. "Analysing Emotional Impact of Sales Promotion on FMCG Products Purchase." The Journal of Indian Management and Strategy 22.4 (2017): 48-56.
- 16. Rijwani, Parag; Patel, Ritesh; Patel, Nikunj. "Service Quality & Customer Satisfaction: Study of Indian banks using SERVQUAL". International Journal of Economic Research 14.18 (2017): 199-211.
- 17. Bhatt, Amola, and Shahir Bhatt. "Impact of Microfinance on Empowerment of Rural Women in Gujarat." Prajnan 45.4 (2017): 335-357.

Books Published

Sr. No.	Name of the Faculty	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Rao Indu	Cultural Governance in Indian Diamond Industry	Image Publications	978-81- 7997- 735-4	2017
2.	Rao Indu	Bhartiya Heera Udyog Ek Zalhaltu Paasu (In Gujarati)	Image Publications	978-81- 7997- 739-2	2017
3.	Rao Indu	Fundamentals of Human Resource Management	Megraw Hill	978-93- 5260- 720-4	2017
4.	Ashwini Awasthi, Shahir Bhatt	Research Trends in Marketing Management and Human Resource Management Excel India Publishers		978938 625676 8	2017
5.	Ashwini Awasthi, Nikunj Patel	Research Trends in Economics, Finance, and General Management	Excel India Publishers	978938 625675 1	2017
6.	Jain Rajesh, Himanshu Trivedi	Global Challenges: ASQ South A Excellence Through Quality & Innovation		978-81- 930216 -3-7	2018
7.	Balakrishnan Unny, Bhatt Nityesh, Shahir Bhatt	Transformation Through Strategic and Technological Interventions	Megraw Hill Education (India) Pvt. Ltd.	978-93- 87572- 21-8	2018
8.	Bhatt Nityesh, Balakrishnan	Business Transformation	Mcgraw Hill Education	978-93- 87572-	2018

	Unny,	Through Functional	(India) Pvt. Ltd.	22-5	
	Shahir Bhatt	Strategies			
9.	Bhatt Nityesh,	Research Frontiers in	Excel	978-93-	2018
	Ritesh Patel	Human Resource	Publishers, New	86724-	
		Management and	Delhi	69-4	
		Marketing			
		Management			
10.	Bhatt Nityesh,	Research Frontiers in	Excel	978-93-	2018
	Ritesh Patel	Finance and General	Publishers, New	86724-	
		Management	Delhi	70-0	

Book Chapters Published

Sr. No.	Name of the Faculty	Name of the Book Chapter	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Gaurav Mishra, Balakrishnan Unny	Factors Influencing Use of Telecentre Based Services in Rural Areas: A Case of Akshaya Project, Kerala	Services in Emerging Markets	Excel India Publishers	978938 625633 1	2017
2.	2 Balakrishnan Unny, Gaurav Mishra	Risk Based Evaluation of Information Technology Investments	Services in Emerging Markets	Excel India Publishers	978938 625633 1	2017
3.	3otwani Dhiren	Economic Development and Fraudulent Financial Schemes	Enhancing Economic Productivity and Competitiveness Though Financial and Monetary Reforms	Gujarat Technological University	978-93- 5281- 176-2	2017
4.	4Anurodh Singh Khanuja, Rajeshkumar Jain	Supply Chain Practices of Indian Pharmaceutical Industry	Research Trends in Economics, Finance and General Management	Excel India	978-93- 86256- 75-1	2017
5.	5 Jitendra Nenwani, Rajeshkumar Jain	Lean Supply Leading to Business Competitiveness	Research Trends in Economics, Finance and General Management	Excel India	978-93- 86256- 75-1	2017
6.	6 Sahu Subrat	Role of Firm Equipment Dealer in Farmers' Purchase Decision Making Process	Consumer Behaviour & Contemporary Marketing Strategy	Excel India Publishers	789386 256324	2017
7.	7Bhatt Nityesh	Prasadalaya Management at	Global Challenges:	American Society For	978-81- 930216	2017

		Shri Sai Baba Temple, Shirdi: A Case of Operational Excellence	Excellence Through Quality & Innovation	Quality India Pvt. Ltd.	-3-7	
8.	8 Rao Indu, Rajwinder Kaur	Ethnocentrism and Workplace Dynamics	Trends in Consumer Behaviour and Contemporary Marketing Practices	Excel India Publishers	978-93- 8625- 632-4	2017
9.	Rao Indu	Cultural Governance for Sustainable Development	Towards Sustainable Development: A Compilation	Himalaya Publishing House	978-93- 5262- 686-1	2017
10.	Rajwinder Kaur, Rao Indu	Ethnocentrism is Good or Bad?	Research Trends in Marketing Management and Human Resource Management	Excel India Publishers	9-789- 386- 256768	2017
11.	Ritika Singh, Indu Rao	Cross-Cultural Adjustment and Work- Engagement in Self-Initiated Expatriates	Research Trends in Marketing Management and Human Resource Management	Excel India Publishers	9-789- 386- 256768	2017
12.	Mungra Yogesh, Aagja Jayesh	Impact of Suppliers' Flexibility, Promise and Willingness to Support on Buyer Satisfaction	Services in Emerging Markets	Excel India	978-93- 86256- 33-1	2017
13.	Dave Niyati	Can Business Angel Contribute Towards Sustainability of Startups: A Review	Business Ecosystem: Interplay of Key Dimensions	Himalya Publishing House Pvt. Ltd	978-93- 5273- 835-9	2017
14.	Muncherji Nina	Exploring the Relationship between Individual and Organizational Learning: Role of Team Learning	Business Transformation through Functional Strategies	McGraw Hill Education (India) Private Limited	978-93- 87572- 22-5	2018
15.	Jain Rajesh K., Nenwani Jitendra	Lean Startup: Concept, Global Challenges and Issues	Global Challenges : Excellence through Quality and Innovation	ASQ South Asia	978-81- 930216 -3-7)	2018
16.	Jain Rajesh K., Sharma Aayush	Six Sigma Project to Reduce Defects in Capsules: Challenges and Benefits in a Mature Organization	Global Challenges : Excellence through Quality and Innovation	ASQ South Asia	978-81- 930216 -3-7)	2018
17.	Shah Tejas	Conceptualizing	Empowering to	Bharti	978-	2018

		the Framework for Service Value Co-Creation through Crowdsourcing	Create Smart Future through E- Governance and Digitization	Publications	93- 86608 - 32-1	
18.	Jain Rajesh K., Trivedi Himanshu	Global Challeng es: Excellence through Quality and Innovation	Global Challenges : Excellence through Quality and Innovation	ASQ South Asia	978-81- 930216 -3-7	2018
19.	Sood Gunjan, Parashar Sapna	Aspects of Supply Chain Management with a Reference to Perishable Items	Research Trends in Marketing Management and Human Resource Management	Excel India Publications	978938 625676 8	2017
20.	Parashar Sapna, Sood Gunjan	An Analysis of Factors Affecting Mobile Banking Services	Business Transformation through Functional Strategies	McGraw Hill Education (India) Pvt. Ltd	978938 757222 5.	2018

Cases Published

Sr.	Name of Author	Title of Case	Year
No.			
1.	Nina Muncherji	The Decisive Moment!!!:Suraj's Dilemma	
2.	Monali Chatterjee	Deceit on the Roll: Mitsubishi Motors Corp.	2017
3.	Deepak Danak	A Tale of Two Companies	
4.	Shahir Bhatt and	A Journey from MBA to Entrepreneur: A Case	2018
	Amola Bhatt	Study on D&C Developers	
5.	Poonam Chhaniwal	The Journey of Unicorn Uber from San Francisco	2018
		to International Disruption	
6.	Nirmal Chandrakant	A Family Enterprise looking for Grey Pastures in	2018
	Soni	Green Business of Solid Waste Management	

Ph.D. Awarded

Sr.	Name of the Student	Name of the Guide	Title of Thesis
No.		/ Supervisor	
1.	Dhani Ram Rajak	Dr. Rajesh Jain	Management and Analysis of
		and	Multi-Source Remote Sensing
		Dr. Parihar Jaisingh	Data for Modelling Multi-level
			Crop Acreage Estimates
2.	Kaul Natashaa Ravee	Prof. Harismita	Leader Member Exchange: A
		Trivedi	Study of Antecedents and
			Organizational Outcomes
3.	Srivastava Pranaya	Dr. Deepak	Measuring Impact of Firm
		Srivastava	Specific Resources on Export
		and	Performance of SMEs: A

		Dr. P. K. Chugan	Study of Indian Automobile and Textile Sectors
4.	Debjani Rajanish Dass	Dr. Sameer Pingle	Managerial Perception Towards Organizational Change
5.	Abhishek Sachan	Dr. P. K. Chugan	A Study of Relationship Between Personality Traits And Demographic Characteristics With Behavioural Biases of Individual Investors

Research Awards

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty Awardee	Recognition / Honor / Award	Name of the Organization / Event	Award Category
1.	Prof. Rao Indu	Best Research Paper Award	2 nd National Youth Summit	1st Prize
2.	Prof. Unny Balakrishnan	Best Research Paper Award	Nirma University International Conference Management (NICOM 2017)	1st Prize
3.	Prof. Patel Ritesh	Best Research Paper Award	At Anvesh 2017- Doctoral Conference organized by Institute of Management, Nirma University	3 rd Prize
4.	Prof. Tejas Shah	Best Research Paper Award	International Conference on, "Empowering to Create Smart Future through E-Governance and Digitization organized by Bharati Vidyapeeth's Institute of Management Studies and Research, Navi Mumbai	3 rd Prize
5.	Prof. Rao Indu	Award For Pioneering Research Indian Diamond Industry	Gems and Jewellery Export Promotion Council, Ministry of Commerce, Government of India	Memento
6.	Prof. Rao Indu	Outstanding Research	Southern Gujarat	Memento

		and Contribution to Diamond Industry of Surat	Chamber of Commerce and Industry	
7.	Prof. Rao Indu	Exemplary Academic Contribution to Diamond Industry	Sarvajanik Education Society	Memento
8.	Prof. Rao Indu	Visionary Pioneer- Research Contribution to Entrepreneurial Ecosystem	Women Entrepreneurship Day, USA	Memento
9.	Prof. Rao Indu	Viwa-Distinguished Woman in Management	Venus International Foundation, Chennai	Trophy
10.	Prof. Rao Indu	Udgam-Special Achievement Award for Contribution to Academics	Udgam Women's Awards, Gandhinagar	Trophy
11.	Prof. Pawan Kumar Chugan	Outstanding Management Researcher Award	Association of Indian Management Scholars (AIMS), Houston, USA	Citation

Conferences / Seminars / Workshops / Lectures

Nirma International Conference Management (NICOM – 2018)

The 21st Nirma International Conference on Management (NICOM) was organized during January 11-13, 2018. The central theme of the conference was "Societal and Organisational Transformation through Strategic and Technological Interventions". The chief guest of the inaugural session of the conference was Mr. Gurmeet Singh Sethi, Managing Director, Johnson Controls, Hitachi Ltd. The Conference received 211 abstracts and 115 full papers from India and abroad. The proceedings of the conference were published by Mc Graw Hill Education (India) Pvt. Ltd in form of two volumes. The conference was attended by 166 delegates from Academics, Students and Industry Delegates including 8 foreign delegates from USA, Ireland, South Africa, Bangladesh and Nigeria There were 137 papers presented in 25 concurrent sessions. The Valedictory function organized on January 13, 2018 had Mr. Vighnesh Shahane, CEO and Whole time Director, IDBI Federal as the chief guest and Mr. Seshadri Rajaram, Managing Director, Erhardt and Leimer as the guest of honour. The best paper award winners were felicitated during the ceremony.

ANVESH – 13th Doctoral Research Conference

Institute of Management, Nirma University, Ahmedabad organizes Doctoral Research Conference in Management since 2005. It provides a platform for the doctoral students from different areas of business management to interact with peers, exchange ideas and discuss methodological and theoretical issues. Research Clinics and Research Workshops are also conducted as a part of the conference. It assists doctoral students in the pursuit of their research, as they get valuable feedback and suggestions from experts.

Anvesh-2017 - The 13th Doctoral Research Conference was on 7th and 8th April, 2017. It received 92 abstracts and 68 full papers. After the blind review, 31 papers were accepted for publication in two books. It also had 2 workshops, 11 track sessions with 48 presentations and two research clinics, over the one and half day conference.

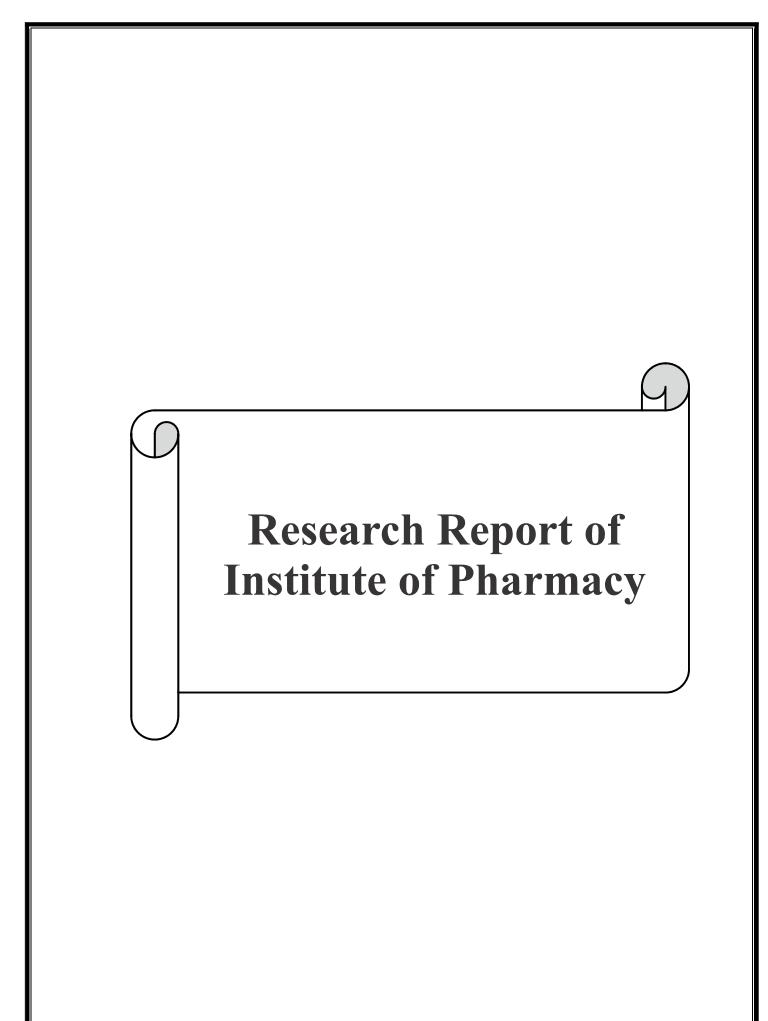
Dr. Yoginder K Alagh, Chancellor, Central University of Gujarat, delivered the inaugural address and offered his views on population, demographics and poverty. Dr. R. J. Mody, Former Director, Sardar Patel Institute of Economic & Social Research delivered expert lecture on 'Philosophy of Research.' Dr. A. C. Brahmabhat, Research Mentor, Pandit Deendayal Petroleum University – Gandhinagar, imparted useful insights on 'Research Design'. The one and half day conference concluded with valedictory session, whereby best paper prizes were declared.

Seventh Annual Quality Conference

The 7th Annual Quality Conference was jointly organized by ASQ LMC Ahmedabad and Institute of Management, during November 18-19, 2017. The theme of the conference was "Global Challenges: Excellence through Quality and Innovation". The inauguration function was graced by several dignitaries including Mr. Abhishek Jain, Film Maker and FounderCineMan Production Ltd.; Mr. Hans Bangert, Managing Director, Bosch Rexroth (India) Pvt. Ltd.; Prof. Anup Singh, Director General, Nirma University; Mr. Mirkhushal Aga, Director, ASO, South Asia; Ms. Stephanie Thompson, Chair-ASO OMD NextGen; Dr. Himanshu Trivedi, Vice President, Bosch Rexroth and Chair ASQ Ahmedabad LMC; Dr. Rajesh K. Jain, Professor, Nirma University and Vice Chair, ASQ LMC. The conference was attended by 400 delegates from industry and academia. Books titled "Global Challenges: Excellence through Quality and Innovation" edited by Dr. Rajesh K. Jain and Dr. Himanshu M. Trivedi was released during the inaugural function. The conference included industrial visit of the participants to 9 different organizations. There was a panel Discussion on "Global Local Challenges". There were plenary talks on "Reliability Engineering" by Mr. Mirkhushal Aga; "Zero Defect Manufacturing and Higher Productivity" by Mr. Anil Patel. There were 39 Live Cases presented in 5 parallel technical sessions by eminent speakers. During the valedictory session awards for Best Paper and Best Case Study were given by Mr. Sachin Garg, Head, Strategy, Business Excellence and Technology Training Group, Tata Housing Development Company Limited.

Research Talks / Lectures Organized by the Institute

- 1. Dr. Ankit Katrodia, College of Law and Management Studies, University of KwaZulu- Natal, Durban delivered a talk on "Opportunities after Ph.D." on October 13, 2017.
- 2. Mr. Aiman Mustafa, Research Scholar, Emory University, Atlanta delivered a talk on "Qualitative Field Research" on July 29, 2017.
- 3. Dr. R. J. Mody, Former Director, Sardar Patel Institute of Economic & Social Research delivered expert lecture on April 07, 2017. The topic for the session was 'Philosophy of Research.'
- 4. Dr. A. C. Brahmabhat, Research Mentor, Pandit Deendayal Petroleum University Gandhinagar delivered an expert session on April 08, 2017. The topic of the session was 'Research Design'.



Institute of Pharmacy - Research Statistics at a Glance

April 01, 2017 - March 31, 2018

Major Research Projects		Total
Completed Major Research Project Funded	Projects Completed	01
by the External Funding Agencies	Total Grant	₹ 34,00,000/=
Ongoing Major Research Projects Funded	Projects Ongoing	07
by the External Funding Agencies	Total Grant	₹ 2,24,97,920/=
Ongoing Major Ongoing Research Project	Projects Ongoing	01
Funded by Nirma University	Total Grant	₹ 28,92,400/=
Minor Research Projects		
Completed Minor Research Projects Funded	Projects Completed	06
by the External Funding Agencies	Total Grant	₹ 31,42,000/=
Ongoing Minor Research Projects Funded	Projects Ongoing	05
by the External Funding Agencies	Total Grant	₹ 17,75,000/=
Completed Minor Research Projects Funded	Projects Completed	04
by Nirma University	Total Grant	₹ 2,90,000 /=
Ongoing Minor Research Projects Funded by	Projects Ongoing	03
Nirma University	Total Grant	₹ 2,75,000 /=
Minor Research Projects		
Research Papers in Scopus / Web of Science Journals during 2017	/ ABDC / EBSCO Listed	73
Book Chapters Published		03
2001 CHAPTOLD I WOULDING		
Doctoral Research		
Ph.D. Degree Awarded		14
Total Ph.D. Students		86
Total Ph.D. Guides		26
Research Awards		
Research Awards Received by the Faculty Me		02
Faculty Members who Received Financial Sup		01
Funding Agencies and Nirma University for A		
Conference		
Conformance / Coming		
Conferences / Seminars	1.1. a1. T. a'	0.1
International / National Conferences Organize	-	01
Seminars / Workshops / Refresher Courses Or	· · · · · · · · · · · · · · · · · · ·	06
Research Talks / Lectures Organized by the In	21	

Research Projects

Major Research Projects

Completed Major Research Project Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Liquid Phase Combinatorial Synthesis of Benzimidazole Library for Antitubercular Activity	Prof. Manjunath Ghate	Department of Science and Technology	34,00,000/=
Total (Grant			₹ 34,00,000/=

Ongoing Major Research Projects Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Determination of Specific Absorption Coefficient for the Dominant Macro Algal Species of Indian Coastal Water-A Step Towards Developing Biomarkers & Community based Chlorophyll and Accessory Pigments Algorithm	Prof. Mehta Priti, Prof. Munshi Nasreen	Indian Space Research Organisation	16,00,000/=
2.	Exploring the Effect of Histone Deacetylases (HDAC) in Cancer-Cachexia and their Downstream Targets	Prof. Patel Bhoomika	Science and Engineering Research Board, DST	27,00,000/=
3.	Evaluation of Radio Protective Potential of Medicinally Important Indian Bamboo Plants in Cancer	Prof. Mehta Priti, Prof. Bakshi Sonal	Ministry of Ayush, Govt. of India	42,00,000/=
4.	Glutathione Appended Polymeric Nanoconstructs of Asiatic Acid for Efficacious Neuroprotection Against Alzheimer Diseases	Prof. Acharya Niyati	Department of Bio Technology	45,56,000/=
5.	Epidemiology of Anemia in Pre-School Triabl	Prof. Panchal Shital, Prof. Kothari Charmy	Department of Bio Technology	18,60,000/=

	Children with Reference to its Etiology and Pathophysiology	Prof. Dalai Sarat	Medical Research	
6.	Evaluation of DNA Polymerase Inhibitors for the Treatment of Alzheimers Disease	Prof. Shah Jigna, Prof. Bhatt Hardik	Gujarat State Biotechnology Mission	20,81,920/=
7.	FIST Grant	Prof. Manjunath Ghate	Fund for Improvement of Science & Technology Infrastructure, DST	55,00,000/=
Total	Grant			₹ 2,24,97,920/=

Ongoing Major Research Project Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Formulation Development and Evaluation of Nanoparticulate Systems for Targeted Delivery of Anticancer Agents	Prof. Patel Mayur, Prof. Patel Bhoomika	28,92,400/=
Total C	Grant Transfer of the Control of the		₹ 28,92,400/=

Minor Research Projects

Completed Minor Research Projects Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Development and Optimization of Mucoadhesive Film for Treatment of Vaginal Candidiasis	Prof. Mishra Renuka, Prof. Patel Snehal	Gujarat Council on Science and Technology	4,85,000/=
2.	Design, Synthesis of Quinoline Derivatives as Novel Apoptosis Inducers and Anticancer Agents	Prof. Vyas Vivek, Prof. Ghate Manjunath	Gujarat Council on Science and Technology	4,85,000/=
3.	Investigation in to Neuroprotective Effects of Bergenia Ciliata Roots in Alzheimer Disease with Special Reference to	Prof. Acharya Niyati	Gujarat Council on Science and Technology	3,22,000/=

	Bergenin			
4.	Ocular Iontophoretic	Prof. Shah Jigar,	Gujarat	7,00,000/=
	Delivery of Nanoparticles Via Transscleral Route for	Prof. Patel Snehal	Council on Science and	
	Post Diseases		Technology	
5.	Investigation of Mechanisms	Prof. Shah Jigna,	Gujarat	4,80,000/=
	of Action of Selected Herbal	Prof. Patel Snehal	Council on	
	Drugs for the Treatment of		Science and	
	ADHB		Technology	
6.	Identification and	Prof. Kothari Charmy,	Gujarat	5,00,000/=
	Characterization of Marker	Prof. Mehta Priti	Council on	
	Compound from Polyherbal		Science and	
	Formulation		Technology	
Total	Grant		•	₹ 31,42,000/=

Ongoing Minor Research Projects Funded by External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Design And Synthesis of Novel Pteridine Derivatives as Aurora Kinase Inhibitors for the Treatment of Cancer	Prof. Bhatt Hardik, Prof. Vyas Vivek	Gujarat Council on Science and Technology	2,70,000/=
2.	Evaluation of Chemoprotective Potential of Active Constituent of L. Usitatissimum in Colon Cancer Associated with Diabetes Mellitus	Prof. Patel Bhoomika, Prof. Bhadada Shraddha	Gujarat Council on Science and Technology	2,80,000/=
3.	Screening and Characterization of Anticancer Bioactive Principle from the Indigenous Plants of Dang Forest	Prof. Mehta Priti, Prof. Kothari Charmy, Prof. Gandhi Dipal	Gujarat Council on Science and Technology	3,00,000/=
4.	Evaluation of Effect of Butea Monosperma in Neurodegeneration	Prof. Shital Panchal Dr. Jigna Shah	Gujarat Council on Science and Technology	5,35,000/=
5.	Investigation of Role of Tephrosia Purpurea in Cardiovascular Complications in Rats	Prof. Shraddha Bhadada Prof. Bhoomika Patel	Gujarat Council on Science and Technology	3,90,000/=
Total	Grant			₹ 17,75,000/=

Completed Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	In-Silico Designing, Synthesis and Pharmacological Evaluation of Novel Anticancer Agents	Prof. Parikh Palak	90,000/=
2.	Evaluation of Anti-Hypertensive Agent in Cancer-Cachexia Induced Cardiotoxicity	Prof. Patel Bhoomika	55,000/=
3.	Pharmacological Evaluation of Antiurolithiatic Activity of Grewia Flavascens	Prof. Acharya Niyati	80,000/=
4.	Beneficial Effect of Pimpinella Anisum in Delaying Cataract	Prof. Shraddha Bhadada	65,000/=
Total	Grant		₹ 2,90,000 /=

Ongoing Minor Research Projects Funded by by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Solubility Enhancement of BCS Class II Drug Using Self Emulsifying Drug Delivery System	Prof. Shah Mohit	90,000/=
2.	Solubility Enhancement of Lead Candidates As Anti-Diabetic Agents	Prof. Patel Bhumika, Prof. Patel Nrupesh	1,00,000/=
3.	Synthesis of co-crystals of Acyclovir for Improvement of Physicochemical Parameters	Prof. Jignasa Savjani	85,000/=
Total C	Grant Grant	,	₹ 2,75,000 /=

Research Publications

Research Papers in Scopus / Web of Science / ABDC / EBSCO Listed Journals (During the Year 2017)

- 1. Bakrania, Anita K., Bhavesh C. Variya, and Snehal S. Patel. "Role of ß-interferon Inducer (DEAE-Dextran) in Tumorigenesis by VEGF and NOTCH1 Inhibition along with Apoptosis Induction." Frontiers in pharmacology 8 (2017): 930.
- 2. Pawar, Neha, et al. "Evaluation of genotoxic and modulatory effects of Nyctanthes arbor-tristis calyx extract and the isolated crocin in Ames' assay." Natural product research (2017): 1-5.
- 3. Shah, Neha, et al. "Investigation on influence of Wurstercoating process parameters for the development of delayed release minitablets of Naproxen." Drug development and industrial pharmacy 43.12 (2017): 1989-1998.
- 4. Mishra, Renuka, Kripali Soni, and Tejal Mehta. "Mucoadhesive vaginal film of fluconazole using cross-linked chitosan and pectin." Journal of Thermal Analysis and Calorimetry 130.3 (2017): 1683-1695.

- 5. Panchal, Shital S., et al. "Reduction of liver tumerogenic effect of nitrosodiethylamine by treatment with γ-oryzanol in Balb/C mice." Environmental toxicology and pharmacology 56(2017): 86-98.
- 6. Rawal, Tejal, et al. "Dry-Powder Inhaler Formulation of Rifampicin: An Improved Targeted Delivery System for Alveolar Tuberculosis." Journal of aerosol medicine and pulmonary drug delivery 30.6 (2017): 388-398.
- 7. Sitwala, Nikum D., et al. "Liquid phase combinatorial synthesis of 1, 2, 5trisubstituted benzimidazole derivatives as human DHODH inhibitors." Bioorganic chemistry 75 (2017): 118-126.
- 8. Khan, Mohammad Yaseen, and Vimal Kumar. "Mechanism of antihypertensive effect of Mucuna pruriens L. seed extract and its isolated compounds." Journal of Complementary and Integrative Medicine (2017): 1-12.
- 9. Patel, Parmi, and Jigna Shah. "Role of Vitamin D in Amyloid clearance via LRP-1 upregulation in Alzheimer's disease: A potential therapeutic target?." Journal of chemical neuroanatomy 85 (2017): 36-42.
- 10. Prachi, Saklecha, Chaudhary Komal, and Mehta J. Priti. "Influence of Peroxide Impurities in Povidone on the Stability of Selected β-Blockers with the Help of HPLC." AAPS PharmSciTech 18.7 (2017): 2410-2417.
- 11. Bakrania, Anita K., et al. "Antitumor potential of herbomineral formulation against breast cancer: Involvement of inflammation and oxidative stress." 55 (2017): 680-687.
- 12. Singh, Devendra Pratap, et al. "Curcumin, a component of turmeric, efficiently prevents diclofenac sodium-induced gastroenteropathic damage in rats: A step towards translational medicine." Food and Chemical Toxicology 108 (2017): 43-52.
- 13. Patel, Palak, et al. "Combined in silico approaches for the identification of novel inhibitors of human islet amyloid polypeptide (hIAPP) fibrillation." Journal of Molecular Graphics and Modelling 77 (2017): 295-310.
- 14. Thakare, Vishnu N., et al. "Silymarin ameliorates experimentally induced depressive like behavior in rats: Involvement of hippocampal BDNF signaling, inflammatory cytokines and oxidative stress response." Physiology & behavior 179 (2017): 401-410.
- 15. Harshit, Dave, Kothari Charmy, and Patel Nrupesh. "Organophosphorus pesticides determination by novel HPLC and spectrophotometric method." Food chemistry 230 (2017): 448-453.
- 16. Chaube, Udit, and Hardik Bhatt. "3D-QSAR, molecular dynamics simulations, and molecular docking studies on pyridoaminotropanes and tetrahydroquinazoline as mTOR inhibitors." Molecular diversity 21.3 (2017): 741-759.
- 17. Patel, Bhumika D., et al. "3D-QSAR and Molecular Docking Studies of HIV-1 Entry Inhibitors Targeting GP120-CD4 Binding Site." Anti-Infective Agents 15.2 (2017): 115-130.
- 18. Shah, Neha, Tejal Mehta, and Mukesh Gohel. "Formulation and Optimization of Multiparticulate Drug Delivery System Approach for High Drug Loading." AAPS PharmSciTech 18.6 (2017): 2157-2167.
- 19. Bakrania, Anita K., et al. "Repeated dose 28-day oral toxicity study of DEAE-Dextran in mice: An advancement in safety chemotherapeutics." Regulatory Toxicology and Pharmacology88 (2017): 262-272.
- 20. Vyas, Vivek K., et al. "Molecular modeling study for the design of novel acetyl-CoA carboxylase inhibitors using 3D QSAR, molecular docking and dynamic simulations." Journal of Biomolecular Structure and Dynamics 35.9 (2017):2003-2015.

- 21. Patel, Prutha, and Priti Mehta. "Microwave-assisted heating: innovative use inhydrolytic forced degradation of selected drugs." Journal of Microwave Power and Electromagnetic Energy 51.3 (2017): 205-220.
- 22. Mali, Prashant Y., and Shital S. Panchal. "Euphorbia tirucalli L.: Review on morphology, medicinal uses, phytochemistry and pharmacological activities." Asian Pacific Journal of Tropical Biomedicine 7.7 (2017): 603-613.
- 23. Singh, Devendra Pratap, Swapnil P. Borse, and Manish Nivsarkar. "Overcoming the exacerbating effects of ranitidine on NSAID-induced small intestinal toxicity with quercetin: Providing a complete GI solution." Chemico-biological interactions 272 (2017): 53-64.
- 24. Gajjar, Saumitra, and Bhoomika M. Patel. "Neuromedin: An insight into its types, receptors and therapeutic opportunities." Pharmacological Reports 69.3 (2017): 438-447.
- 25. Patel, Bhumika D., Shraddha V. Bhadada, and Manjunath D. Ghate. "Design, synthesis and anti-diabetic activity of triazolotriazine derivatives as dipeptidyl peptidase-4 (DPP-4) inhibitors." Bioorganic chemistry 72 (2017): 345-358.
- 26. Prajapat, Manali D., et al. "Formulation and evaluation of self-emulsifying drug delivery system for nimodipine, a BCS class II drug." Journal of Drug Delivery Science and Technology 39 (2017): 59-68.
- 27. Shah, Ankit, Charmy Kothari, and Nrupesh Patel. "Concurrent Estimation of Gabapentinand Nortriptyline Hydrochloride in their Combined Dosage Form Using OPA-ß-Mercaptoethanol Derivatization by Spectrophotometric and Spectrofluorimetric Methods." Current Pharmaceutical Analysis 13.3 (2017): 241-249.
- 28. Vyas, Vivek K., Manjunath Ghate, and Nirzari Gupta. "3D QSAR and HQSAR analysis of protein kinase B (PKB/Akt) inhibitors using various alignment methods." Arabian Journal of Chemistry 10 (2017): S2182-S2195.
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- 30. Shaikh, Muhammad Vaseem, Manika Kala, and Manish Nivsarkar. "Development and optimization of an ex vivo colloidal stability model for nanoformulations." AAPS PharmSciTech 18.4 (2017): 1288-1292.
- 31. Patel, Mayur M. "Formulation and development of di-dependent microparticulate system for colon-specific drug delivery." Drug delivery and translational research 7.2 (2017): 312-324.
- 32. U Kulkarni, Prajakta, Manjunath D Ghate, and Vivek K Vyas. "In Silico Modeling for the Design of 2-substitted Benzimidazole Derivatives, and Prediction of Activity as Procaspase-3 Activators and Apoptosis Inducer." Letters in Drug Design & Discovery 14.4 (2017): 387-397.
- 33. Hiral, Koradia. "Amalgamation of Quality by Design and Convolution Concept for the Development of Oxcarbazepine Modified Release Granules." Asian Journal of Pharmaceutics (AJP): Free full text articles from Asian J Pharm 11.02 (2017): 83-91.
- 34. Pichu, Sivakamasundari, et al. "Role of biomarkers in predicting diabetes complications with special reference to diabetic foot ulcers." Biomarkers in medicine 11.4 (2017): 377-388.
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- 42. Mulchandani, Neha, Nimish Shah, and Tejal Mehta. "Synthesis of Chitosan-Polyvinyl Alcohol Copolymers for Smart Drug Delivery Application." Polymers & Polymer Composites 25.3 (2017): 241.
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- 44. Patel, Misari, and Charmy Kothari. "Critical review of statins: A bio-analytical perspective for therapeutic drug monitoring."TrAC Trends in Analytical Chemistry 86 (2017): 206-221.
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- 50. Chauhan, Navneet, and Anuradha Gajjar. "Classifying Druggability on Potential Binding Sites of Glycogen Synthase Kinase-3?: An In-Silico Assessment." ACTA Pharmaceutica Sciencia 55.3 (2017): 43-60.
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- 52. Kala, Manika, Muhammad Vaseem Shaikh, and Manish Nivsarkar. "Equilibrium between anti-oxidants and reactive oxygen species: a requisite for oocyte development and maturation." Reproductive medicine and biology 16.1 (2017): 28-35.
- 53. Barot, Kuldipsinh P., Kuntal S. Manna, and Manjunath D. Ghate. "Design, synthesis and antimicrobial activities of some novel 1, 3, 4-thiadiazole, 1, 2, 4-triazole-5-thione and 1, 3-thiazolan-4-one derivatives of benzimidazole." Journal of Saudi Chemical Society 21 (2017): S35-S43.
- 54. Modi, Anuj. "Phytochemical analysis, antioxidant activity, and hepatoprotective effects of Zizyphus xylopyrus (Retz.) Willd leaves extracts against carbon tetrachloride-induced hepatotoxicity in in vitro and in vivo models." International Journal of Green Pharmacy (IJGP) 11.01 (2017): 42-56.
- 55. Savjani, Jignasa K., et al. "Molecular docking, synthesis and biological screening of mefenamic acid derivatives as anti-inflammatory agents." European journal of pharmacology 801 (2017): 28-34.
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- 58. Ranpariya, Maulik, et al. "Development and validation of a high-performance thin layer chromatographic—densitometric method for the quantification of guggulsterones E and Z in a polyherbal formulation containing Commiphora Mukul." JPC-Journal of Planar Chromatography-Modern TLC 30.3 (2017):181-187.
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- 71. Nair, Anroop B., et al. "Poly (lactic acid-co-glycolic acid) Nanospheres Improved the Oral Delivery of Candesartan Cilexetil." Indian Journal of Pharmaceutical Education and Research 51.4 (2017): 571-579.
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Book Chapters Published

Sr. No.	Name of the Faculty	Name of the Book Chapter	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Shruti Rawal, Patel Mayur	Lipid Nanoparticulate Systems: Modern Versatile Drug Carriers	Lipid Nanocarriers for Drug Targeting	Elsevier Inc. USA	978-0- 12- 813687 -4	2018
2.	Acharya Niyati, Namdev Dhas, Ritu Kudarha, Sanjeev Acharya, Nisith Raval	Coreshell Nanoparticles as a Drug Delivery Platform for Tumor Targeting	Inorganic Frameworks as Smart Nanomedicines	Elsevier William Andrew Applied Science Publishers, USA	978-0- 12- 813661 -4	2018
3.	Acharya Niyati, Sanjeev Acharya, Devang Shelat	Evaluation of anti- Obesity Potential of Heartwood of Pterocarpus Marsupium using Panceatic Lipase Inhibitory Activity and high Fat Diet Model in Rats	Hyperlipidemia of the series "Recent Progress in Medicinal Plants"	Studium Press, USA	978162 699081 7	2018

Ph.D. Awarded

Sr. No.	Name of the Student	Name of the Guide / Supervisor	Title of Thesis
1.	Neeraj Kumar Sharma	Dr. Vimal Kumar	Formulation and Characterization of Photosensitive Liposomes of Anticancer Drugs
2.	Om Prakash Sharma	Dr. Tejal Mehta	Surface Modified Nanomaterials for Improving Solubility and Dissolution
3.	Pandya Radhika B.	Dr. Tejal Mehta	Dissolution Enhancement of BCS class II Drugs Using Hybrid Technique of Solid Dispersion and Adsorption Employing the Concept of Quality by Design
4.	Amal Kumar	Dr. Bhaswat Chakraborty	Use of Operational and Decisional Approaches in Clinical Pharmacology Research to Optimize Clinical Trial Management, Design and Analysis
5.	Jain Shailesh V.	Dr. Manjunath Ghate	Design and Synthesis of DPP 4 Inhibitors as Anti-diabetic Agents
6.	Shaikh Muhammad V.	Dr. Manish Nivsarkar	Targeting Drug Resistant Cancer Stem-like Cells using Nanoparticles: A Novel Strategy for Anticancer Treatment
7.	Thakur Sandeep Kumar	Dr. Manish Nivsarkar	Identification of Biomarkers for Early Detection of Drug Induced Hepatotoxicity
8.	Bakrania Anita	Dr. Snehal Patel	Investigation and Evaluation of Interferon Inducer Alone and in Combination with Chemotherapeutic Agents as a Targeted Anti-Cancer Therapy
9.	Manika Kala	Dr. Manish Nivsarkar	Role of Stress and Stress Hormones on Ovulation and Implantation in Mice: Involvement of Adrenals
10.	Bhangale Jitendra Onkar	Dr. Sanjeev Acharya	Study of Novel Scaffolds from Natural Product for the Treatment of Neurodegenerative Diseases

11.	Thakare Vishnu Namdeorao	Dr. Bhoomika M. Patel	Pharmacological Evaluation of Silymarin and Protocatechuic Acid in Experimentally Induced Depression in Rodents
12.	Saurabh Agarwal	Dr. Bhoomika M. Patel	Comparative study of Centrally Acting Muscle Relaxants in Spasticity Associated with Post-Stroke, Cerebral Palsy & Spinal Cord Injury
13.	Vrundaben C. Suthar	Dr. Shital Butani	Development And Evaluation of Self-Emulsifying Drug Delivery Systems of Lercanidipine HCI to Improve Dissolution in Biorelevant Media
14.	Shah Brijesh M.	Dr. Harish Padh	Instranasal Colloidal Drug Delivery System for Brain Targeting of Drugs

Research Awards

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty Awardee	Recognition / Honor / Award	Name of the Organization / Event	Award Category
1.	Prof. Patel Mayur	Eudragit Award	Evonik Industries AG, Germany	2 nd Prize
2.	Prof. Patel Bhoomika	Best Paper Award	Fifth International Conference of Pharmacoeconomics and Outcomes Research	Best Presentation

Travel Grants Received by the Faculty Member

Sr. No.	Name of the Faculty Member	Purpose of the Visit	Name of the Funding Agency	Name of the Country
1.	Prof. Savjani Jignasa	Attending International Conference and Presenting Research Paper	American Chemical Society	USA

Conferences / Seminars / Workshops / Lectures

Nirma Institute of Pharmacy International Conference (NIPiCON-2018)

The three days Nirma Institute of Pharmacy International Conference (NIPiCON –2018) was organized by Institute of Pharmacy during January 23-25, 2018. The theme of the conference was "Innovation in Pharmaceutical Research by Interdisciplinary Approach". Dr. Dan Miller, Vice President, Excorp Pvt. Ltd., Singapore was the chief guest and Dr. Anamik Shah, ViceChancellor, Gujarat Vidyapith was the guest of honour for the inaugural function of the conference. Internationally acclaimed eminent speakers like Dr. Eric Kupferberg, Dr. Nikolaos Kostopoluos, Prof. Sunil Jambhekar, Dr. Balvantsinh Chauhan, Dr. Maya Nair, Dr. Neelima Chauhan and Dr. Manoj Mishra delivered plenary talks in the conference. Nationally reputed speakers from the fields of Pharmaceutical Sciences, Ayurvedic science, Biological Science etc. shared their knowledge and discussed avenues of interdisciplinary approaches in Pharmaceutical research. More than 400 delegates from all over India and from various fields attended the conference and presented their research work in poster session during the three days of conference. Dr. Eric Kufenberg, Director, Cambridge Graduate University, USA was the chief guest and Prof. Sunil Jambhekar, Associate Dean, LECOM School of Pharmacy, Bradenton, Florida, USA was the guest of honour of the valedictory function of conference. The prizes for best posters were presented during valedictory function. The conference served as a platform for sharing of knowledge and ideas in complementing research areas of Pharmaceutical Sciences among the young researchers who can take up newer challenges using multidisciplinary approach.

Seminar / Workshop / Training Programmes Organized by the Institute

- 1. Seminar on 'Natural Medicines, Nutraceuticals and Herbal Cosmetics' was organized by Department of Pharmacognosy on August 19, 2017.
- 2. Hands-on-Training on 'Formulation and Characterization of Nanoparticulate Drug Delivery Systems' was organized by Department of Pharmaceutics on September 16, 2017.
- 3. One Day Workshop on 'Medical Writing' was organized by Department of Pharmacology on September 21, 2017.
- 4. Workshop titled 'Hands on Training for HPLC and GC' was conducted by Pharmaceutical Analysis Department on November 03, 2017.
- 5. One day workshop on 'Application of Analytical Techniques for Herbal Drugs Research' was organized by Department of Pharmacognosy on January 6, 2018.
- 6. Workshop on 'Computer Aided Drug Design Software' was organized by Department of Pharmaceutical Chemistry on February 17, 2018.

Research Talks / Lectures Organized by the Institute

- 1. Dr. Pina J. Trivedi, Scientific Officer, Cell Biology Division, Gujarat Cancer and Research Institute, Ahmedabad delivered lecture on 'Genetics and Genetic Disorders' on May 06, 2017.
- 2. Dr. Anupama Ramkumar, Director, Arkus CTSS, Ahmedabad delivered lecture on 'Pharmacovigilance Closing the Loop' on April 21, 2017.
- 3. Ms. Mitul Chatterjee, Director, Regulatory Affairs, Amneal Pharmaceuticals, Ahmedabad delivered Lecture on 'ANDA Submission How to Comply with Agency's RTR Standards?' on April 25, 2017.

- 4. An interactive session of Professor Rishi Shanker, Consultant, Centre for Innovation and translational research, was arranged for students of M. Pharm. Pharmacology on August 01 August, 2017.
- 5. Dr. Radhakrishna Uppala, Director of Epigenomics and Research Scientist, Department of Obstetrics and Gynecology, Oakland University, USA delivered lecture on 'Epigenetic Markers and Other Epigenetic Regulatory Signaling Pathway Genes associated with Congenital Heart Defects' on August 02, 2017.
- 6. Dr. Rema Razdan, Professor, Al-Ameen College of Pharmacy delivered lecture on 'A study of Zoledronic Acid Functionalized Hydroxyapatite Nano Formulation for Treatment of Osteoporosis' on August 09, 2017.
- 7. Interactive session of Dr. M. N. Saraf, Principal, Bombay College of Pharmacy was arranged for students of M. Pharm. on August 22, 2017.
- 8. Dr. Sharad Gupta, Assistant Professor, Department of Electrical Engineering, IIT, Gandhinagar, delivered guest lecture on 'The Role of Post Translational Modifications (PTMs) in Neurodegenerative Disorders' on November 13, 2017.
- 9. Dr. Mahesh M. Ghaisas, Professor, Department of Pharmacology, Indira College of Pharmacy, Pune delivered lecture on 'Writing for scientific and medical manuscript' on November 17, 2017
- 10. Dr. Milan Satia, CEO, Ethicare Research Centre, delivered lecture on 'Fundamentals of Clinical Trials, its Conduction and Management: A Practical Approach' on November 18, 2017.
- 11. Prof. Rakesh S. Srivastava, Head, Department of Computer Applications, M.S. University, Baroda delivered lecture 'Bio-statistic Principle Applied in Clinical Research' on December 12, 2017.
- 12. Dr. Brijesh Srivastava, Deputy General Manager, Zydus Research Centre, Ahmedabad delivered lecture on 'Recent Strategies for Design of Anti-cancer Agents with a Support of Case Study of ZYTP1' on November 24, 2017.
- 13. Dr. Sanjay Kumar, General Manager, Department of Medicinal Chemistry, Zydus Research Centre, Ahmedabad delivered Lecture on 'Role of Stereochemistry in Drug Design and Development' on November 29, 2017.
- 14. Mr. Niraj Shah, Scientific Writer, PPD, Hyderabad delivered lecture on 'Medical writing' on January 5, 2018
- 15. Dr. Anupama Ramkumar, Director, Arkus Ltd. delivered guest lecture entitled "Medical Writing" on 7th January, 2018 for students of M. Pharm. Sem IV. Prof. Sunil Jambhekar, LECOM School of Pharmacy, Bradenton, Florida, USA delivered lecture on 'Applications of Pharmacokinetics in Research' on January 31, 2018.
- 16. Dr. Bipin Pandey, Director, Centre of Excellence, Saurashtra University, Rajkot delivered lecture on 'Introduction to Peptidomimetics' on January 29, 2018.
- 17. Dr. Ashok Omray, President, Ideal Cures Pvt. Ltd., Mumbai delivered lecture on 'Industry based Pharmacy Research' on March 3, 2018.
- 18. Dr. P.G. Shrotriya, Former Director, NMIMS, Mumbai delivered lecture on 'Skill Development-Interlinking subjects, Case studies' on March 14, 2018.
- 19. Dr. Bhaswat Chakraborty, Ex-Vice President, Cadila Pharmaceuticals, Ahmedabad delivered lecture on 'Ethics in Pharmacy Profession' during March 17, 2018.
- 20. Dr. Anita Mahapatra, Dept. of Natural Products, National Institute of Pharmaceutical Education and Research Ahmedabad (NIPER Ahmedabad) delivered a Lecture on "Chemistry and Drug development from the class of alkaloids and terpenoids" on November 28, 2017.
- 21. Expert Lecture Series on "Career Avenues in Pharmacy" on November, 18, 2017

- i. Mr. Jitendra Kumar Jain Associate Vice President-Quality Assurance, Amneal Pharmaceuticals, Ahmedabad delivered a lecture on over View of Quality Assurance.
- ii. Dr. Umesh Barabde Operations-Head, Pharmaceutical Development Services Piramal Pharmaceutical, Ahmedabad delivered a talk on, "QbD in Pharmaceutical Development-An Overview".
- iii. Mr. Sachin Verma, Senior Scientist, Intas Pharma, Ahmedabad gave a brief idea about the Biosimilars
- iv. Dr. Ramesh Pennamareddy Assistant General Manager Regulatory Affair, Amneal Pharmaceuticals, Ahmedabad conveyed a talk on, "Regulatory Affairs function and view on product life cycle management".

Research Report of **Institute of Science**

Institute of Science - Research Statistics at a Glance

April 01, 2017 - March 31, 2018

Major Research Projects		Total
Completed Major Research Projects	Projects Completed	02
Funded by the External Funding Agencies	Total Grant	₹ 34,51,300/=
Ongoing Major Research Projects Funded	Projects Ongoing	07
by the External Funding Agencies	Total Grant	₹ 2,12,15,600/=
Minor Research Projects		
Completed Minor Research Projects	Projects Completed	02
Funded by the External Funding Agencies	Total Grant	₹ 7,00,000/=
Ongoing Minor Research Project Funded	Projects Ongoing	01
by the External Funding Agencies	Total Grant	₹ 3,99,000/=
Research Publications		
Research Papers in Scopus / Web of Science	e / ABDC / EBSCO Listed	29
Journals during 2017		
Books Published		01
Book Chapters Published		08
Doctoral Research		
Ph.D. Degree Awarded		07
Total Ph.D. Students		51
Total Ph.D. Guides		71
Research Awards		
Research Awards Received by the Faculty Members		03
Conferences / Seminars		
International / National Conferences Organiz	01	
Seminars / Workshops / Refresher Courses C	Organized by the Institute	01
Research Talks / Lectures Organized by the	Institute	12

Research Projects

Major Research Projects

Completed Major Research Projects Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant
1.	Ideopathic Mental Retardation and Dysmorphism: Karyotypic and UPD Analysis	Dr. Sonal Bakshi	Gujarat State Biotechnology Mission (GSBTM)	(in ₹) 15,25,000/=
2.	Epidemiology of Anemia in Pre-School Tribal Children of Eastern Gujarat with Reference to Etiological Factors	Dr. Vijay Kothari	Indian Council of Medical Research	19,26,300/=
Total	Grant	-		₹ 34,51,300/=

Ongoing Major Research Projects Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Role of Synaptogenic Adhesion Molecules (SAMS) in Insulin Secretion: Effect of Diabetes and Hypoglycaemia	Dr. Amee Nair	Science and Engineering Research Board, DST	29,40,000/=
2.	Elucidating the Role of Short Chain Fatty Acids (SCFAS) and its Receptors in High Sugar Diet Induced Type II Diabetes	Dr. Sriram Seshadri	Gujarat State Biotechnology Mission (GSBTM)	22,52,000/=
3.	Investigation of the Regulatory Role of Mir712 in Inflammation Induced Skeletal Muscle Insulin Resistance	Dr. Sriram Seshadri	Science and Engineering Research Board, DST	9,35,000/=
4.	Development of Chimeric II-15 to Improve its Bioavailability and Efficacy	Prof. Sarat Kumar Dalai	Department of Bio Technology	35,00,000/=
5.	Infectious Status of Plasmodia Modulating the Innate Response in	Prof. Sarat Kumar Dalai	Fund for Improvement of Science &	52,00,000/=

Total	Grant		251	₹ 2,12,15,600/=
7.	Regulation of MHC-II Expression: Immunity to Malaria	Prof. Sarat Kumar Dalai	Science and Engineering Research Board, DST	35,00,000/=
6.	T Cells That Ensue Long-Lived Protection Against Malaria Molecular basis of Succinate Mediated (catabolite) Repression of Mineral Phosphate Solubilization in Nitrogen fixing Klebsiella Pneumonia	Prof. Shalini Rajkumar	Science and Engineering Research Board, DST	28,88,600/=
	Determining the Fate of Liver-Stage Specific Cd8+		Technology Infrastructure,	

Minor Research Projects

Completed Minor Research Projects Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Downs Syndrome in Gujarat: Molecular Probing in Origin	Dr. Sonal Bakshi	Gujarat Council on Science and Technology	6,00,000/=
2.	Validation of the in Vitro and in Vivo Efficacy of HERBOHEAL against Wound-Infective Bacteria, with Respect to its Possible Quorum-Modulatory Potential and Elucidation of the Underlining Molecular Mechanism	Dr. Vijay Kothari	Sristi-DBT- BIRAC	1,00,000/=
Total	Grant	0-		₹ 7,00,000/=

Ongoing Minor Research Projects Funded by External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Investigation of the Molecular Basis of Enhanced Exopolysaccharide (EPS) Production by Xanthomonas	Dr. Vijay Kothari	Gujarat Council on Science and Technology	3,99,000/=

		Campestris Under Influence of Audible Sound			
Total Grant					₹ 3,99,000/=

Research Publications

Research Papers in Scopus / Web of Science / ABDC / EBSCO Listed Journals (During year 2017)

- 1. Patel, Rushika, Purvi Zaveri, and Nasreen S. Munshi. "Microbial fuel cell, the Indian scenario: developments and scopes." Biofuels (2017): 1-8.
- 2. Joshi, Garima, G. Ravi, and S. Mukherjee. "Observations of elongated whistler waves in the inertial regime." Physics of Plasmas 24.12 (2017): 122110.
- 3. Kumar, Mohit, et al. "Changing Landscape of Marine National Park and Sanctuary, Gulfof Kachchh: Ecological Assessment of Mangroves and Coral Reefs." Proceedings of the National Academy of Sciences, India Section A: Physical Sciences87.4 (2017): 889-900.
- 4. Darji, A., et al. "Establishment of cell line with NK/NKT phenotype from myeloid NKcell acute leukemia." Leukemia research 61 (2017): 77-83.
- 5. Iyer, Bhagya, Mahendrapal Singh Rajput, and Shalini Rajkumar. "Effect of succinate onphosphate solubilization in nitrogen fixing bacteria harbouring chick pea and their effecton plant growth." Microbiological research 202 (2017): 43-50.
- 6. Sahoo, Tapasa Kumar, et al. "In Vivo Assessment of Immunogenicity and Toxicity of theBacteriocin TSU4 in BALB/c Mice." Probiotics and antimicrobial proteins 9.3 (2017):345-354.
- 7. Kothari, Vijay, Sakshi Sharma, and Divya Padia. "Recent research advances on Chromobacterium violaceum." Asian Pacific journal of tropical medicine 10.8 (2017):744-752.
- 8. Orpe, P. B., C. Balasubramanian, and S. Mukherjee. "Influence of DC arc current on theformation of cobalt-based nanostructures." Pramana 89.2 (2017): 20.
- 9. Orpe, P. B., et al. "Local structure of cobalt nanoparticles synthesized by high heat fluxplasma process." Radiation Physics and Chemistry 137 (2017): 108-115.
- 10. Patel, Hardik, et al. "Frequent inoculations with radiation attenuated sporozoite isessential for inducing sterile protection that correlates with a threshold level of Plasmodia liver-stage specific CD8+T cells." Cellular immunology 317 (2017): 48-54.
- 11. Garg, Neeraj K., et al. "Functionalized Lipid–Polymer Hybrid Nanoparticles Mediated Codelivery of Methotrexate and Aceclofenac: A Synergistic Effect in Breast Cancer with Improved Pharmacokinetics Attributes." Molecular pharmaceutics 14.6 (2017): 1883-1897.
- 12. Sharma, Sonal, et al. "Homogenous PCR of Heterogeneous DNA from Phenolic Rich Barks of Terminalia Species for DNA Based Adulteration Detection." Proceedings of the National Academy of Sciences, India Section B: Biological Sciences87.2 (2017): 507-512.
- 13. Solomon, Infant, et al. "Correlation of structural and optical properties of PVD grown amorphous carbon thin films." Diamond and Related Materials 75 (2017): 69-77.
- 14. Tyagi, Rajeev K., Rajesh Parmar, and Naisargee Patel. "A generic RNA pulsed Dcbased approach for developing therapeutic intervention against nasopharyngeal carcinoma." Human vaccines & immunotherapeutics 13.4 (2017): 854-866.

- 15. Patel, Suhani, Palak Patel, and Sonal R. Bakshi. "Titanium dioxide nanoparticles: an in vitro study of DNA binding, chromosome aberration assay, and comet assay." Cytotechnology 69.2 (2017): 245-263.
- 16. Pandya, Ankur, and Prafulla K. Jha. "Electron transport parameters study for transition metal-doped armchair graphene nanoribbon via acoustical phonon interactions." Journal of Electronic Materials 46.4 (2017): 2340-2346.
- 17. Bhatnagar, Mukul, et al. "Thermal dynamics of silver clusters grown on rippled silica surfaces." Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 393 (2017): 5-12.
- 18. Tyagi, Rajeev K., et al. "Human IDO-competent, long-lived immunoregulatory dendritic cells induced by intracellular pathogen, and their fate in humanized mice." Scientific Reports 7 (2017): 41083.
- 19. Garg, Neeraj K., et al. "Quality by Design (QbD)-enabled development of aceclofenac loaded-nano structured lipid carriers (NLCs): An improved dermatokinetic profile forinflammatory disorder (s)." International journal of pharmaceutics 517.1-2 (2017): 413-431
- 20. Rawal, Tejal, et al. "Rifampicin loaded chitosan nanoparticle dry powder presents animproved therapeutic approach for alveolar tuberculosis." Colloids and Surfaces B: Biointerfaces 154 (2017): 321-330.
- 21. Kumar, Mohit, et al. "Study of mangrove communities in Marine National Park and Sanctuary, Jamnagar, Gujarat, India, by fusing RISAT-1 SAR and Resourcesat-2 LISSIV images." International Journal of Image and Data Fusion 8.1 (2017): 73-91.
- 22. Khambhala, Pinakin, Purva Paliwal, and Vijay Kothari. "Microwave Mutagenesis of Brevibacillus Parabrevis for Enhanced Cellulase Production, and Investigation on Thermostability of this Cellulase." The Journal of Microbiology, Biotechnology and Food Sciences 6.5 (2017): 1213.
- 23. Kothari, Vijay, et al. "Sonic Stimulation can affect Production of Quorum Sensing Regulated Pigment in Serratia marcescens and Pseudomonas aeruginosa." Current Trends in Biotechnology and Pharmacy 11.2 (2017): 121-128.
- 24. Zaveri, Purvi, et al. "Modification of extraction method for community DNA isolation from salt affected compact wasteland soil samples." MethodsX 4 (2017): 63-67.
- 25. Kunwar, Fulesh, Shikha Tewari, and Sonal R. Bakshi. "Apert syndrome with S2 52W FGFR2 mutation and characterization using Phenomizer: An Indian case report." Journal of oral biology and craniofacial research 7.1 (2017): 67-71.
- 26. Kunwar, Fulesh, Kiran Tandel, and Sonal R. Bakshi. "Recurrent chromosomal translocations: Is proximity a rule." Indian Journal of Experimental Biology 55 (2017):15-20.
- 27. Asim, Ambreen, et al. "MTHFR promoter hypermethylation may lead to congenital heart defects in Down syndrome." Intractable & rare diseases research 6.4 (2017): 295-298.
- 28. Pant, A., et al. "Proteases in mosquito borne diseases: new avenues in drug development." Current topics in medicinal chemistry 17.19 (2017): 2221-2232.
- 29. Avani Darji, Nirav Desai, R. Modi, B. Khamar and Shalini Rajkumar (2017) Cytotoxicity of Mycobacterium indicus pranii on Mia-Pa-Ca2 cells. Applied Cancer Research 37:30-36.

Book Published

Sr. No.	Name of the Faculty	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Shriram Shesadri	Lactobacillus and Urinary Tract Infection	Mc-Graw Hill Open Publishing, USA	978-1- 3870- 5218-9	2017

Book Chapters Published

Sr. No.	Name of the Faculty	Name of the Book Chapter	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	S halini Rajkumar, Bhagya Iyer	A Metagenomic Approach to Identify Distinct Rhizospheric and Endophytic Bacterial Communities from Roots and Root Nodules of Vigna Radiata	Understanding Host-Microbiome Interactions - An Omics Approach	Springer, Singapore	981105 0503, 978981 105050 3	2017
2.	Kothari Vijay, Sakshi Sharma, Deepa Shahi, Divya Gajera	Molecular Mechanisms Underlining Anti-infective Potential of Flavonoids	Recent Advances in the Molecular Mechanism of Flavonoids.	Studium Press	978938 504621 6	2017
3.	Kothari Vijay, Chinmayi Joshi Pooja Patel	Exploring New Strategies in Resistance to Antibiotics: Are We Prepared to Handle this Growing Ghost?	Alternatives to Conventional Antimicrobials	Omics International	978-1- 63278- 076-8	2017
4.	Kothari Vijay, Pooja Patel, Chinmayi Joshi	A Commentary with Particular Emphasis on those Possessing Potential to Inhibit Microbial Quorum Sensing	Bioactive Natural Products	Springer International Publishing	978-3- 319- 52668- 3, 978- 3-319- 52669- 0.	2017
5.	Sarat Kumar Dalai, Manoj Patidar, Naveen Yadav	Pulling back to the Nature: A Condition to Fight IBD	Inflammatory Bowel Disease	Open Access Books.Com	978-93- 87500- 06-8	2017
6.	Kothari Vijay Omprakash, Pooja Patel, Chinmayi Joshi	Modulation of Microbial Quorum Sensing: Nanotechnological Approaches in Design of	Design of Nanostructures for Versatile Therapeutic Applications	Elsevier	128136 685	2018

		Nanostructures For Versatile Therapeutic Applications				
7.	Kothari Vijay, Pooja Patel, Chinmayi Joshi, Deepa Shahi, Charmi Mehta, Bhumika Prajapati, Sweta Patel, Dipeeka Mandaliya, Sriram Seshadri	Nanotechnological Approaches to Colon-Specific Drug Delivery for Modulating the Quorum Sensing of Gut-Associated Pathogens	Design of Nanostructures for Versatile Therapeutic Applications	Elsevier	128136 685	2018
8.	Shriram Seshadri, Sweta Patel, Deepika Mandaliya	Dietary Fibers and their Role in Human Health and Diseases	Functional Food and Human Health	Springer- Nature	978- 981-13- 1123-9	2018

Ph.D. Awarded

Sr.	Name of the Student	Name of the Guide /	Title of Thesis
No.		Supervisor	11010 01 110020
1.	Sharma Sonal R.	Dr. Neeta Srivastava	Development of DNA Based Marker for Unequivocal Identification and Authentication of Medicinal Plants with Special Reference to Adulteration
2.	Patel Pareshkumar A.	Dr. A. R. Patel	Modelling of Some Problems in Lubrication
3.	Prajapati Bhumika J.	Dr. Sriram Seshadri	Elucidating the Role of Pathogen Pattern Recognition Receptors and Inflammatory Mediators following Gut Microbiota alteration and in Diet induced Type 2 Diabetes
4.	Patel Suhani S.	Dr. Sonal Bakshi	Study of Genotoxicity of Nanoparticles
5.	Zaveri Purvi D.	Dr. Nasreen Munshi	Functional Microbial Diversity and Bacterial Flora in Common Effluent Treatment Plants of South Gujarat and their Application
6.	Vyas Swapnil S.	Dr. B. K. Bhattacharya Dr. Rahul Nigam	Regional Characterization of Agricultural Drought Using Remote Sensing Base Observations from Indian Geostationary Satellites
7.	Bhatnagar Mukul	Dr. Mukesh Ranjan	Growth Dynamics and

		Plasmonic response of Silver nanoparticles deposited on
		nanodots / nanorippled templates

Research Awards

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty Awardee	Recognition / Honor / Award	Name of the Organization / Event	Award Category
1.	Dr. Nair Amee	Best Oral Presentation	Central University of Gujarat	2 nd Prize
2.	Dr. Nair Amee	Best Poster Award	Institute of Science, Nirma University	3 rd Prize
3.	Dr. Nair Amee	IBS Award for the Best Research Paper	Society of Biotechnology, India	Trophy

Conferences / Seminars / Workshops / Lectures

Annual Conference of Indian Immunology Society (IMMUNOCON-2017)

The 44th Annual Conference of the Indian Immunology Society (IMMUNOCON-17) was organized during December 14-16, 2017 at Institute of Science in collaboration with Institute of Advanced Research (IAR), Gandhinagar and B. V. Patel PERD Centre, Ahmedabad. The thematic title of conference was "Immune Mechanisms of Infectious Diseases and Beyond". The conference witnessed 300 participants from diverse locations and domains. The conference featured researchers working in realm of immunology and infectious diseases from the country and abroad. The conference was inaugurated in the presence of Hon'ble Dr. Karshanbhai K. Patel, President, Nirma University. The keynote address was given by Prof. G.P. Talwar, Founder of Indian Immunology Society. It was followed by plenary talks by Prof. N.K. Ganguly, Former DG of ICMR, and Dr. Bhaskar Saha, SS Bhatanagar awardee, NCCS, Pune. The conference constituted various sessions on basic Immunology, HIV, TB, Malaria and other infectious diseases. It also had sessions on Metabolic Disorders, Stem Cell and Regenerative Medicine, Cancer and Transplantation Immunology, Immunomodulation, and Vaccine/Immunotherapeutics. The event was sponsored by GSBTM, Govt. of Gujarat; ICMR and DST, Govt. of India; Immunology Foundation and a number of Science Industries.

Seminar Organized by the Institute

Workshop on "Wastewater from Characterization to Treatment"

Institute of Science and Biocare Research India Pvt. Ltd., Ahmedabad jointly organized a workshop on "Wastewater from Characterization to Treatment" during March 12-14, 2018. The workshop was coordinated by Dr. Purvi Zaveri from Biocare Research (I) Pvt. Ltd., Ahmedabad and Dr. Nasreen Munshi from Institute of Science. The workshop started with session by Prof. Eric Van Hullebusch, Chair Professor of Environmental Science and Technology, IHE – Delft, Netherlands. The session focused on waste water and its

characteristics, need and challenges for the water treatment, microbial metabolic diversity and its role in treatment, aerobic and anaerobic modes of waste water treatment and various test parameters to monitor the water treatment. A talk was delivered by Shri Deepak Davda, CEO, Green Environment Services Co-op. Soc. Ltd., CETP, Vatva, Ahmedabad. Dr. Nasreen Munshi also conducted sessions on microbial aspects of waste water treatment and on assessment of functional microbial diversity of waste water microbial community. The workshop ended with a half day visit to Common Effluent Treatment Plant (CETP), Vatva, Ahmedabad. The total number of participants was 32 which included personnel from Industries, Consulting Firms and CETP and Academia.

Research Talks / Lectures Organized by the Institute

- Dr. Baskaran Thyagarajan, Associate Professor, Pharmaceutics and Neuroscience. Molecular Signaling Laboratory, College of Health Sciences, University of Wyoming delivered a lecture on, "TRPV1 Activation Orchestrates Sirtuin-1-Dependent Browning of WAT to Counter Diet-Induced Obesity" on August 29, 2017.
- 2. Dr. Ram Chandra, Dean, School of Environmental Science, Dept. of Environmental Microbiology, Dr. B.R. Ambedkar Central University, Lucknow delivered a lecture on, "Environmental Health Hazards of Post Methanated Distillery Waste and its Biodegradation for Environmental Safety" on September 14, 2017.
- 3. Dr. Malavika Subramanyam, Assistant Professor, IIT-Gandhinagar delivered a lecture on, "Statistical Analysis" on September 29, 2017
- 4. Prof. Vrushank Davé, Associate Professor, Pathology, Cell Biology & Oncologic Sciences, Morsani College of Medicine & H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA delivered a lecture, on "Tale of PTEN Tails: Structure, Function and Modulatory Roles in Diseases" on December 02, 2017.
- 5. Dr. Rachel A.J, Sr. Principal Scientist, Center for Cellular and Molecular Biology, Hyderabad delivered lecture on, "Extensive Alternative Splicing & Regulation" on December 19, 2017.
- 6. Dr. Sachin Kumar, Associate Professor, Department of Biosciences and Bioengineering Indian Institute of Technology Guwahati, delivered a lecture on, "Newcastle Disease Virus as a Vector for Vaccines and Diagnostics" on December 26, 2017.
- 7. Dr. Suman Jain, Dept. of Physiology, AIIMS, New Delhi delivered a lecture on, "Therapeutic Potential of Nanoparticles in Parkinson's Disease" on January 01, 2018.
- 8. Dr. Sen Pathak, Distinguished Research Professor, Department of Genetics, University of Texas, Anderson Cancer Center Houston, Texas, USA delivered lecture on, "Genomic Modification in Cancer Development: Role of Giant Cells in Cancer Metastasis" on February 06, 2018.
- 9. Professor Minaxi Desai, School of Healthcare Sciences, Institute of Cancer, Sciences, Manchester, UK delivered lecture on, "Human Papilloma Virus and Cancer: Recent Updates in Translational Research" on February 17, 2018.
- 10. Dr. B. Vasanthraj David, Chairman Scientific & Academic Board, International Institute of Biotechnology and Toxicology, Padappai delivered lecture on, "History of GLP in India, Importance of GLP in Academic Research" and emphasized on inculcating a habit of following GLPs from early stage of research on March 08, 2018.
- 11. Prasun Kumar, Research Professor, Chungbuk National University, Korea delivered lecture on, "Glycerol based Fermentations" on March 23, 2018.
- 12. Dr. Pawan Malhotra, New Delhi delivered a lecture on "Plasmodium Secretory Antigens and their Roles in Immunomodulation and Combating Stresses" on March 28, 2018.

Research Report of **Institute of Law**

Institute of Law - Research Statistics at a Glance

April 01, 2017 - March 31, 2018

Minor Research Projects				
Ongoing Minor Research Projects Funded	Projects Ongoing	02		
by Nirma University	Total Grant	₹ 1,70,000/=		
Research Publications				
Research Paper in Scopus / Web of Science	e / ABDC / EBSCO Listed	01		
Journals during 2017				
Book Published		01		
Book Chapter Published		01		
Doctoral Research				
Total Ph.D. Students		08		
Total Ph.D. Guides		03		
Research Awards				
Research Awards Received by the Faculty M	Iembers	01		
Faculty Members who Received Financia	al Support from External	02		
Funding Agencies and Nirma University f	or Attending International			
Conferences				
Conferences / Seminars				
International / National Conference Organization	01			
Seminars / Workshops / Refresher Courses (Organized by the Institute	03		
Research Talks / Lectures Organized by the	Institute	04		

Research Projects

Minor Research Projects

Ongoing Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project	Grant		
No.		Investigator/s	(in ₹)		
1.	A Study on Effectiveness of Problem	Prof. Shalini S.	80,000/=		
	based Learning in Legal Education				
2.	Mapping Politico-Legal Dilemmas Associated with Climate Refugees	Prof. Rejitha Nair	90,000/=		
Total (Total Grant				

Research Publications

Research Paper in Scopus / Web of Science / ABDC / EBSCO Listed Journals (During year 2017)

1. Moonka, Rohit, and Silky Mukherjee. "Impact of the Recent Reforms on Indian Arbitration Law." BRICS Law Journal 4 (2017): 58.

Book Published

Sr. No.	Name of the Faculty	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Prof. Amit Kumar Kashyap	Corporate Law in India: Reflective Aspects and Developing Scenario	Regency Publication, New Delhi	978- 935222017 5	2017

Book Chapter Published

Sr. No.	Name of the Faculty	Name of the Book Chapter	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	1 Prof. Arun Prasad	Cyber Crimes in 21st Century	Cyber Crime in India: Time Series Study of Cyber Crimes at	Manakin Press, New Delhi	978-93- 843705 -3-4	2017
			State Level			

Research Awards

Research Award Received by the Faculty Members

Sr.	Name of the	Recognition / Honor /	Name of the	Award
No.	Faculty Awardee	Award	Organization / Event	Category
1.	Dr. Madhuri Parikh	Award for the Research in Environmental Law Area		Achiever's in the Field Category

Travel Grants Received by the Faculty Members

Sr. No.	Name of the Faculty Member	Purpose of the Visit	Name of the Funding Agency	Name of the Country
1.	Dr. Purvi Pokhariyal	Participation in GAJE International Conference	Nirma University	Mexico
2.	Dr. Rohit Moonka	Attending the Session on Private International Law conducted by The Hague Academy of International Law (a constituent body of International Court of Justice), Hague, The Netherlands	The Hague Academy of International Law	The Netherlands

Conferences / Seminars / Workshops / Lectures

National Conference on Justice Education (NCJE)

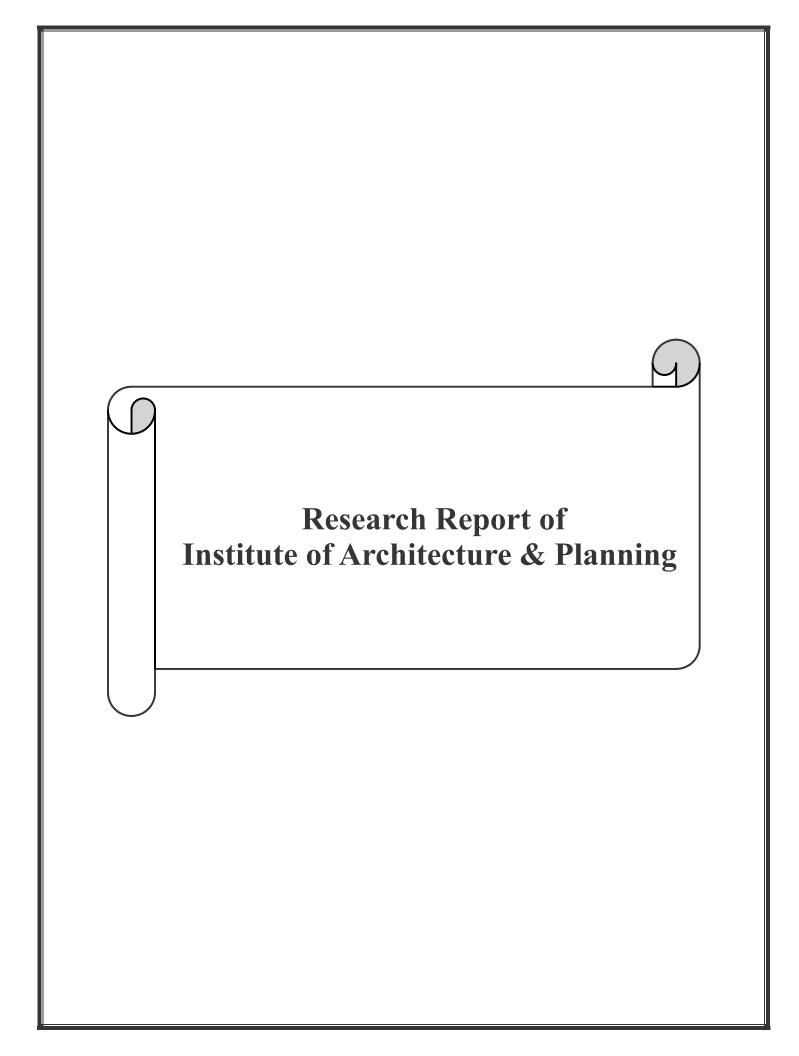
The National Conference on Justice Education-NCJE was organized by Institute of Law during November 10-11, 2017. The theme of conference was 'Developing New Perspectives on Law Reforms and Legal Education'. There were paper presentations on topics related to Right to Identity vis-à-vis Right to Privacy, Insolvency and Bankruptcy Code, Tribalization and Justice System in India, Impact of Triple Talaq Judgment inter alia. The conference was presided over by various legal luminaries including Hon'ble Mr. Justice Mohan Pieris, Former Chief Justice and Attorney General of Sri Lanka, Prof. N. R. Madhava Menon, Indian legal educator and Mr. M. K. Nambyar, Academy for Continuing Legal Education, Kerala. The round table discussion held on November 11, 2017 on the theme "Innovation in Legal Education and Pedagogy" was chaired by Prof. N. R. Madhava Menon.

Workshops Organized by the Institute

- 1. Workshop on "Ethics and Political Philosophy" was conducted by Prof. Raghuram Raju, Professor of Philosophy, NALSAR, Hyderabad on November 11, 2017.
- 2. Workshop on "Speech, Democracy and Liberalism" was conducted by Prof. Raphel Cohen Almagor, Director MESG, School of Politics, University of Hull, and Professor and Chair in Politics, School of Politics, Philosophy and International Studies, University of Hull, U.K during January 6-16, 2018.
- 3. Workshop on "Patent Drafting and Specification Drafting" was conducted by Mr. Sandeep Rathod, Assistant General Counsel, Mylan Laboratories Limited, Hyderabad during January 8-10, 2018 and March 16-17, 2018.

Research Talks / Lectures Organized by the Institute

- 1. Lecture on 'Indian Freedom and Zionist Movements' was delivered by Mr. Shimon Lev Historian, Author and Photographer on November 21, 2017.
- 2. Lecture on 'Futuristic Technology, its Opportunities and Deficiencies it might bring to the legal industry' was delivered by Mr. Ripal Vyas, CEO, Softweb Solutions, Chicago, USA on September 5, 2018
- 3. Lecture on 'Business and Human Rights: From Doing Good to Doing Right' was delivered by Mr. Salil Tripathi, Contributing Editor, Mint and Caravan Chair, PEN International's Writer in Prison Committee & Senior Advisor, Institute for Human Right and Business on January 18, 2018
- 4. Lecture on 'Can Growth be Sustainable Issues and Challenges' was delivered by Dr. Sudarshan Iyengar, Former Vice Chancellor, Gujarat Vidyapeeth, on November 28, 2017.



Institute of Architecture & Planning - Research Statistics at a Glance

April 01, 2017 - March 31, 2018

Major Research Projects	Total	
Ongoing Major Research Project Funded	Projects Ongoing	01
by the External Funding Agencies	Total Grant	₹10,92,500/=
		•
Research Publications		
Book Published		01
Doctoral Research		
Total Ph.D. Students		04
Total Ph.D. Guides		01
Research Awards		
Faculty Members who Received Financial	Support from the External	04
Funding Agencies and Nirma University for	or Attending International	
Conferences		
Conferences / Seminars		
International / National Conferences Organiz	01	
Seminars / Workshops / Refresher Courses C	Organized by the Institute	01
Research Talks / Lectures Organized by the I	Institute	10

Research Projects

Major Research Projects

Ongoing Major Research Project Funded by the External Funding Agency

Sr.	Title of the Project	Project Investigator/s	Funding	Grant
No.			Agency	(in ₹)
1.	Residential Building Energy Demand Reduction in India	Prof. Utpal Sharma, Prof. Parag Mistry, Prof. Purvi Jadav	Department of Science Technology, New Delhi	10,92,500/=
Total	₹ 10,92,500/=			

Book Published

Sr. No.	Name of the Faculty	Name of the Book	Name of Publishing House	ISBN	Year of Publication
1.	Prof. Sharad Panchal	Crafting the Composition: Part 1	R.R.Sheth & Co. Pvt. Ltd.	978-81- 890598-92- 1	2017

Travel Grants Received by the Faculty Members

Sr. No.	Name of the Faculty Member	Purpose of the Visit	Name of the Funding Agency	Name of the Country
1.	Prof. Utpal Sharma	Subject Expert on Affordable Housing Policy	UN Habitat	Myanmar
2.	Prof. Utpal Sharma	Asian Planning Schools Association Congress	Asian Planning Schools Association (APSA)	China
3.	Prof. Aprana	Guest Speaker at the International Conference	START International Inc, Manila Metropolitan	Philippines
4.	Prof. Shweta Suhane	Attending International Conference and Presenting Research Paper	Nirma University	Bangkok, Thailand

Conferences / Seminars / Workshops / Lectures

Bonjour India-Under the Future Tour, the Knowledge Summit

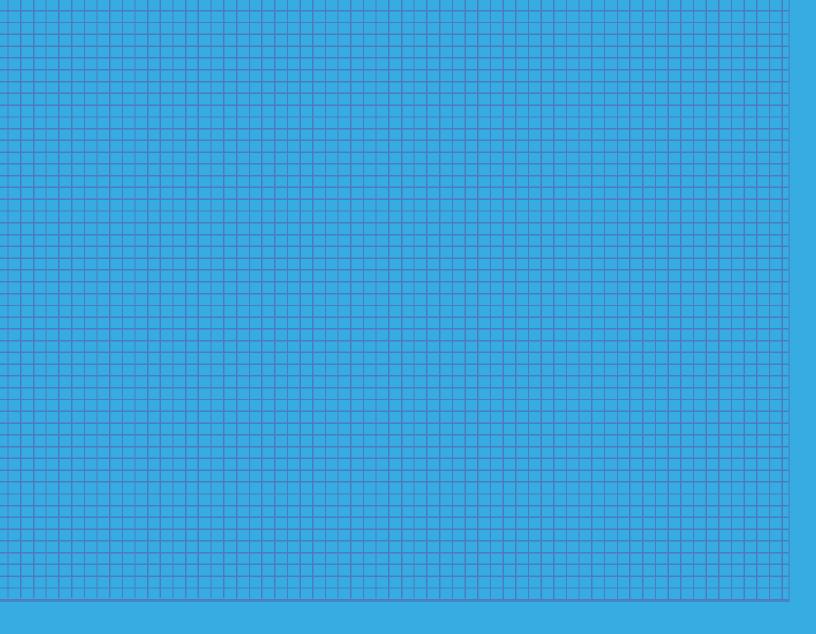
Bonjour India-Under the Future Tour, the Knowledge Summit (Smart Cities: Urban Planning, Architecture and Design) the first high level Indo-French Summit on Higher Education and Research conference was held at Institute of Architecture during February 24-25, 2018. Several round tables and discussions were held to make recommendations and lay the roadmap for Indo-French collaboration. It was followed up in New Delhi with a symposium organized by the Ministry of Human Resource, Government of India and French Embassy in New Delhi. Prof. Utpal Sharma made presentation on 'Development of Smart Cities in India'.

Workshop Organized by the Institute

Institute of Architecture and Planning hosted an international workshop in collaboration with the following schools: HTWG Constance; Escola da Cidade in Sao Paulo; CCA - Chandigarh College of Architecture; CMR University, Bangalore; Pearl Academy, Jaipur and JAAGA, DNA. It was called "Flying Classroom" (LC:SP + IN:CH VI) of International Summer school 2017. The workshop was conducted from July 30, 2017 to August 26, 2017. The participants visited various places in India out of which Institute of Architecture hosted them from the August 09, 2017 to August 14, 2017. Myriam Gautchim, the Head of the Faculty of Architecture and Design at HTWG Konstanz and Juerg Gunder, from IN: CH academy had conducted the workshop.

Research Talks / Lectures Organized by the Institute

- 1. Lecture on 'Learning from New Cities: Koenigsberger's Plan of Bhubaneshwar' was delivered by Prof. Somnath Sen, GICEA on August 5, 2017.
- 2. Lecture on 'Architecture Sub-limen' was delivered by Prof. Giovanni Leone, Professor, University of Venice, Italy on August 28, 2017.
- 3. Lecture on 'Interactive design' was delivered by Ar. Shujoy Chakraborty, Practicing Architect on August 31, 2017.
- 4. Lecture on 'Vidyadharnagar's planning' was delivered by Shri A K Gupta, Retired Chief Town Planner, Rajasthan during September 2017.
- 5. Lecture on 'Some Question for Architects Today' was delivered by Ar. Riyaaz Tayyibiji, Practicing Architect on September 7, 2017.
- 6. Lecture on 'Role of Crafts and Heritage in Interior Architecture' was delivered by Ar. Jay Thakker, Design Innovation and Craft Resource Centre (DICRC), CEPT University on September 14, 2017.
- 7. Lecture on 'World Heritage City Ahmedabad' was delivered by Prof. R. Vasavada on October 2, 2017.
- 8. Lecture on 'Prevalent Health Issues in Rural Areas' was delivered by Dr. Pravin Bagul, Chief Medical Superintendent on December 26, 2017.
- 9. Lecture on 'Rural development in Kachchh' was delivered by Mr. Binoy Acharya, Director, Unnati Organization during January, 2018.
- 10. Lecture on 'Plate Politics / Power of your Food Choices' was delivered by Prof. Purvi Vyas, Organic Farmer, Professor and Environment Consultant on February 9, 2018.





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