Research Report



NAAC ACCREDITED 'A' GRADE





Annual Research Report (2016-17)

Nirma University
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11.

Dr. Sagar Pandya,

Nirma University Research Report 2017

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Message by the Vice President

Nirma University has been a pioneer educational nucleus with a promise of constant growth and utmost commitment. The University has formed a reputation as a centre of excellence in the domain of higher learning and has taken various steps to boost the research skills of the students and the faculty members.

The University has established itself as the facilitator of knowledge in various areas with constantly evolving educational methodology and global approach to the teaching learning techniques. It has advanced in academic environment and extends support to enable the researchers at the University to provide their best. The University encourages and enables all the potential researchers to undertake research projects which have the scope to affect larger group of people and offer their well-being.

The University has also been involved into collaborating as well as partnering with not only national but also international institutes in order to explore and expose greater possibilities of research activities. Our efforts are to make the local research strong enough to make its mark internationally and translate into a tangible reality.

As we review on the progress of the University through the Annual Research Report 2017, I would like to acknowledge the persistence and meticulousness of the researchers of the University who have made it attainable.

K. K. Patel

Vice President

Nirma University



Message by the Director General

Dear Reader,

Greetings from Nirma University!

The traditional binary between education and research in Indian universities is dissipating fast. Although free standing research institutions are prospering, universities are increasing their footprint in the field of research and innovation. It is indeed salubrious for the growth and development of the country. Another significant trend is that universities are moving away from facile research to rigorous and high quality research. Full time doctoral programmes are being established and research culture is being strengthened.

Nirma University is increasingly making its presence felt in the domain of research and innovation through doctoral education and research programmes. Our research endeavours are characterised by four Ps: Ph.D. Programme, Projects, Papers and Patents. The doctoral programme at the University is becoming robust and impactful. Further, number of research projects and financial grants for the same are on increase. Quality of research papers is constantly improving. Finally, the culture of patenting innovation is gaining ground. Nonetheless, we as a University would like to improve and innovate on a continuous basis to contribute to the society.

The present Research Report is organised around the four Ps discussed earlier and it describes research outcomes institute wise. The report also includes the lists of books and book chapters written by the faculty members.

I hope the Report will help you in understanding our journey towards excellence in research and innovation.

Yours Sincerely,

Anup Kumar Singh, PhD

Director General

Nirma University



Preface

It is my pleasure to share with you the research activities of the Nirma University and its constituent institutes for the financial year 2016-17. In fact, this year was very important to us as the University established a full-fledged Directorate of Research & Innovation (DRI) for promoting different research activities. Through the DRI, we would like to create new and vibrant connections within and across the breadth of our research and teaching. We also aim to provide an atmosphere that allows the research scholars to achieve high standards of work in creating socially beneficial products.

This annual Research Report serves as a compilation of the outcomes of various research activities including the research projects, publications, patent, research awards and many more. The Report is structured in such a way that it provides Institute wise information making it easier for the readers to trace the desired information.

Importantly, in the current issue, we have put more emphasis on presenting statistics and details related to the quality research outcomes. Due to this, there might be small numbers under some of the research activities. However, we believe that, this is a small step towards encouraging the researchers of the University to focus more on quality rather than quantity. It is important to note that for the data related to the research paper publications, this time, we have put two separate sections. One for all papers published in Scopus or Web of Science indexed journals and another section with all other papers published in the UGC listed journals. Apart from this, this year, we have added the data related to the travel grants received by the faculty members and the students to visit foreign countries for various research related assignments. The Report also includes the lists of Books and Book Chapters on Research Themes written by the faculty members.

Before summing up, I offer my sincerest appreciation to all the faculty members of the University and research scholars who helped us achieve the results outlined in this report. 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.

At Nirma University, we have set our aims high and look forward to our journey ahead, setting new milestones en route.

Dr. Dhaval Pujara

Director (I/C),

Directorate of Research and Innovation – Nirma University

Chairman – Editorial Board



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Executive Summary

Research and innovation are the most important elements of the University education system. The reputation of a University is judged by the research outcomes and the innovations made by it. Research outcomes and generation of the intellectual property are given prime importance in the international University ranking frameworks. Also, the national statutory bodies and the accrediting agencies give higher weightage to the research activities being conducted at the University.

Considering the importance of research activities and their outcomes, Nirma University every year publishes its Research Report. The aim of the Research Report is to share the University research activities to the stake holders, industry and other agencies. This edition of the Report includes research activities carried out by the University and its constituent institutes for the duration of April 01, 2016 to March 31, 2017.

The Research Policy of the University intends to motivate researchers to produce high quality publications as well as to undertake socially relevant research projects. The current year witnessed an incessant flow of productivity resulting in seventeen (17) major ongoing research projects with external funding of \$5,24,87,800/- in addition to 15 major research projects worth \$3,10,06,780/- sanctioned during the year. At the same time, the University continued a scheme of funding for the major research projects. Under the said scheme, two (2) projects worth \$55, 92,400/-, are under the progress. During the year, six (6) major research projects were completed, worth \$1,37,99,840/-. The faculty members are currently working on twenty six (26) minor research projects with external funding of \$1,10,04,000-. The University has funded twenty (20) minor research projects.

Apart from the regular research projects, the University is also producing research scholars through its various Doctoral Programmes. Currently, 355 doctoral students are pursuing their degree under 162 registered supervisors. During the current year, thirty two (32) scholars were awarded with Ph.D. degree.



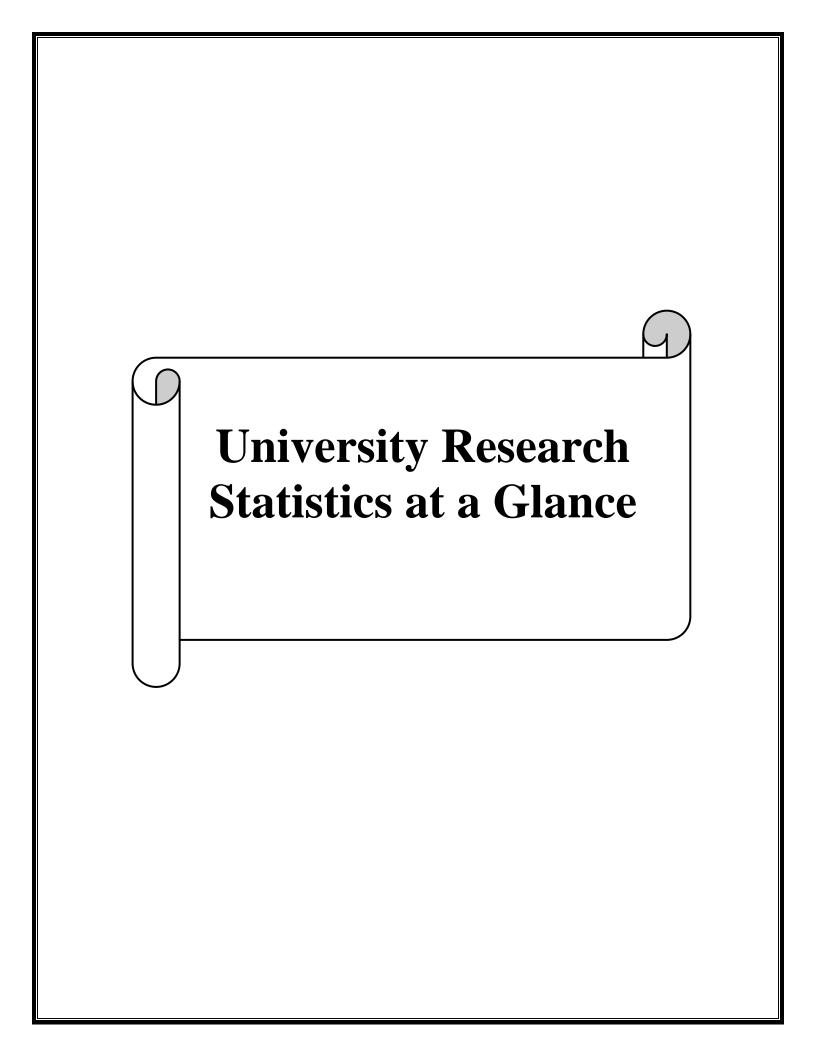
The University would like to have a special mention of four patents which were filed in the current year and two patents were published.

The Research Report is also a medium to highlight the details of publications by the faculty members. This throws light on the amount of new ideas and innovative activities that are carried out at the University. It is to be noted that, this year we have only included the research papers published in journals and magazines that maintain high standards of scrutiny. During the calendar year 2016, total 140 research papers were published in high quality journals listed in Scopus and Web of Science. Around 69 research papers were published in other UGC journals. Apart from these research papers, total 14 books, 37 book chapters and 5 cases were published by the University faculty.

It is noteworthy to add that, 15 esteemed faculty members and 10 students were honoured with different awards during the year. Total 14 faculty members received Travel Grant from the external funding agencies for attending International Conferences/Workshops/Seminars.

The University also keeps facilitating the constituent institutes to organise international / national conferences / seminars / workshops on important research themes. This year 7 international / national conferences and 14 seminars / workshops were organised.

All in all, it was a year that allowed all at the University to soar above the established limits and display the academic exuberance never seen before.



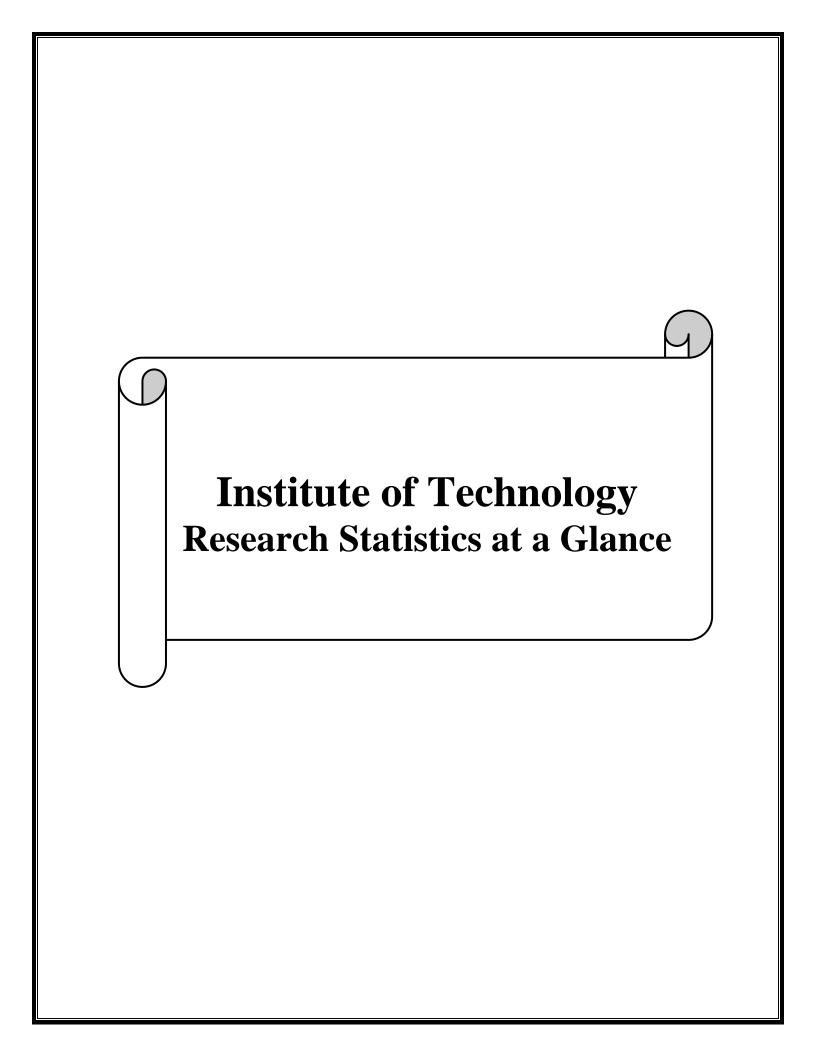


University Research Statistics at a Glance

Major Research Projects		Total
Completed Major Research Projects Funded by	Projects Completed	6
the External Funding Agencies	Total Grant	₹ 1,37,99,840/=
Ongoing Major Ongoing Research Projects	Projects Ongoing	17
Funded by the External Funding Agencies	Total Grant	₹ 5,24,87,800/=
Sanctioned Major Research Projects Funded by	Projects Sanctioned	15
the External Funding Agencies	Total Grant	₹ 3,10,06,780/=
Sanctioned Major Research Projects Funded by	Projects Sanctioned	2
Nirma University	Total Grant	₹ 55,92,400/=
Minor Research Projects		
Completed Minor Research Projects Funded by	Projects Completed	11
the External Funding Agencies	Total Grant	₹ 58,50,519/=
Ongoing Minor Research Projects Funded by the	Projects Ongoing	26
External Funding Agencies	Total Grant	₹ 1,10,04,000/=
Sanctioned Minor Research Projects Funded by	Projects Sanctioned	4
the External Funding Agencies	Total Grant	₹ 27,00,000/=
Completed Minor Research Projects Funded by	Projects Completed	20
Nirma University	Total Grant	₹ 17,34,987/=
Ongoing Minor Research Projects Funded by	Projects Ongoing	20
Nirma University	Total Grant	₹ 17,91,240/=
Sanctioned Minor Research Projects Funded by	Projects Sanctioned	5
Nirma University	Total Grant	₹ 4,73,400/=
Research Publications		,
Research Publications in UGC, Scopus and V Journals during 2016	Web of Science Listed	140
Research Publications in Other UGC Listed Journ	nals during 2016	69
Cases Published	<u> </u>	05
Books Published		14
Book Chapters Published		37
T T		
Patents		
Patents Published		02
Patents Filed		04
Doctoral Research		
Ph.D. Degree Awarded	32	
Total Ph.D. Students	355	
Total Ph.D. Guides	162	
Research Awards		
Research Awards Received by the Faculty Memb	ers	15
Research Awards Received by the Students		10



Faculty Members who Received Financial Support from External Funding Agencies and Nirma University for Attending International Conference	14
Conferences / Seminars	
International / National Conferences Organized by the Institute	07





Institute of Technology - Research Statistics at a Glance

April 01, 2016 - March 31, 2017

Major Research Projects		Total
Completed Major Research Projects	Projects Completed	01
Funded by External Funding Agencies	Total Grant	₹ 21,36,000/=
Ongoing Major Ongoing Research Projects	Projects Ongoing	07
Funded by External Funding Agencies	Total Grant	₹ 1,60,48,000/=
Major Research Projects Funded by	Projects Sanctioned	06
External Funding Agencies	Total Grant	₹ 87,54,000/=
Sanctioned Major Research Projects	Projects Sanctioned	01
Funded by Nirma University	Total Grant	₹ 27,00,000/=
Minor Research Projects		
Completed Minor Research Projects	Projects Completed	02
Funded by External Funding Agencies	Total Grant	₹ 26,60,000/=
Ongoing Minor Research Projects Funded	Projects Ongoing	12
by External Funding Agencies	Total Grant	₹ 48,42,000/=
Sanctioned Minor Research Projects	Projects Sanctioned	03
Funded by External Funding Agency	Total Grant	₹ 26,00,000/=
Completed Minor Research Projects	Projects Completed	11
Funded by Nirma University	Total Grant	₹ 10,99,187/=
Ongoing Minor Research Projects Funded	Projects Ongoing	08
by Nirma University	Total Grant	₹ 9,58,000/=
Sanctioned Minor Research Projects	Projects Sanctioned	02
Funded by Nirma University	Total Grant	₹ 1,98,000/=
Research Publications		
Research Publications in UGC, Scopus an Journals during 2016	d Web of Science Listed	45
Research Publications in Other UGC Listed	Journals during 2016	42
Books Published	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	03
Patents		
Patents Published		02
Patents Filed		03
Doctoral Research		
Ph.D. Degree Awarded		14
Total Ph.D. Students from Technology Disc.	ipline	125
Total Ph.D. Guides from Technology Discip		46



Research Awards	
Research Awards Received by the Faculty Members	08
Research Awards Received by the Students	03
Faculty Members who Received Financial Support from External	06
Funding Agencies and Nirma University for Attending International	
Conference	
Conferences / Seminars	
International / National Conferences Organized by the Institute	01
Seminars / Workshops / Refresher Courses Organized by the Institute	01



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.	Radiation Harden by Design	Dr. N. M.	ISRO -	21,36,000/=	
	(RHBD) Standard Cell	Devashrayee,	RESPOND		
	Library Development	Dr. U. S. Mehta			
Total	Total Grant				

Ongoing Major Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Calibration and Validation of RISAT-1 SAR Sensor and RISAT-1 Derived Soil Moisture	Dr. P. R. Patel	ISRO	29,80,000/=
2.	Development of Passive Damping Surface Coating for Advanced Materials based Structural System using PZT (Piezo) Powder	Dr. S. P. Purohit, Dr. P. V. Patel	ISRO - RESPOND	12,71,000/=
3.	Application of Precast Products Made Using Bottom Ash and Fly Ash for Rural Pavements and Other Infrastructure in India -PI From University Of Victoria, Canada	Dr. U. V. Dave, Dr. Rishi Gupta	IC- IMPACTS	40,65,000/=
4.	Optimization of Corrugated Horn Antenna Using Adaptive Neuro- Fuzzy Inference System	Dr. D. A. Pujara, Dr. D. M. Adhyaru	ISRO - RESPOND	11,04,000/=
5.	Oceanic Pollution and Other Ocean Phenomenon Monitoring using Feature Extraction from Multi- Polarized SAR Data	Dr. T. H. Zaveri, Prof. Pooja Shah	ISRO - RESPOND	18,26,000/=
6.	Process Development for Minimization of Springback Deformation	Prof. S. J. Joshi, Dr. B. A. Modi, Dr. K. M. Patel	ISRO - RESPOND	14,52,000/=



	and Enhancement of			
	Profile Accuracy of CFRP			
	Reflectors			
7.	Study the Behavior of	Dr. P. V. Patel,	DST, SERB	20,50,000/=
	Precast Beam-Column	Prof. Digesh Joshi		
	Junction Under Progressive			
	Collapse Scenario – An			
	Experimental and			
	Analytical Investigations			
8.	Understanding the	Prof. N. D.	DST, SERB	13,00,000/=
	Immersed Friction Stir	Ghetiya,		
	Welding of Aluminium	Dr. K. M. Patel,		
	Alloys	Dr. B. A. Modi		
Total (Grant			₹ 1,60,48,000/=

Sanctioned Major Research Projects Funded by the External Funding Agencies

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Development of Low Cost	Dr. P. R. Patel,	ISRO	17,05,000/=
	Methodology for Surveying	Prof. H. A.		
	and Mapping with Navic	Dalwadi		
2	Heine Deen Leaning to	D. D. D.	Daniel of	26.00.000/
2.	Using Deep Learning to	Dr. Priyanka	Board of	26,00,000/=
	Understand and Predict the	Sharma	Research in Fusion	
	Dynamics of Tokamak		Science and	
	Discharges			
3.	Design and Development of	Dr. Sanjay	Technology ISRO -	10,70,000/=
٥.	Scalable Data Mining	Garg	RESPOND	10,70,000/-
	Algorithms for Big Earth	Gaig	RESPOND	
	Data			
4.	Spectral Discrimination and	Dr. Vibha	ISRO -	10,00,000/=
	Separability Analysis of	Patel	RESPOND	10,00,000
	Crops and Weeds using	1 4101	TEST OF E	
	Deep Learning Techniques			
5.	Design Fabrication and	Dr. Dhaval Pujara	Board of	23,79,000/=
	Testing of A Transition		Research in	
	From Free Space Gaussian		Fusion	
	Beam to Fundamental D-		Science and	
	Band Wave Guide		Technology	
Total (Grant	_		₹ 87,54,000/=



Ongoing Major Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Affordable Pd doped Perovskite based Catalytic Converter for Abating Automotive Emission		27,00,000/=
Total G	Total Grant		

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.	Use of Marine Sand in	Dr. U. V. Dave	Adani	2,50,000/=
	Concrete Construction		Infrastructure	
			Limited	
2.	Design and Development	Dr. Madhuri	Gujarat	3,00,000/=
	of Automated and Reliable	Bhavsar,	Council on	
	Service Provisioning	Prof. Lata Gadhvi	Science and	
	Cloud Architecture for		Technology	
	Engineering Educational		(GUJCOST)	
	Domain			
3.	New Testing Methods at		Gujarat	4,35,000/=
	Design Level for	Prof. P. M.	Council on	
	Improvement in	Bhatasana	Science and	
	Performance of VLSI in		Technology	
	Nanometre Region		(GUJCOST)	
4.	Design of ADC for	Dr. N. M.	Gujarat	4,50,000/=
	Biomedical Applications	Devashrayee,	Council on	
		Dr. A. P. Naik	Science and	
			Technology	
			(GUJCOST)	
5.	Low Temperature Synthesis	Dr. Chetna	Gujarat	4,95,000/=
	and Characterization of	Chauhan	Council on	
	Magnetic Nanoparticles		Science and	
			Technology	
			(GUJCOST)	
6.	Process Development for		Gujarat	4,00,000/=
	Hydrogen Production	Dr. S. S. Patel	Council on	
	through Solar Thermal		Science and	
	Energy			



			Technology (GUJCOST)		
7.	Determination and	Dr. M. H.	Gujarat	3,30,000/=	
	Predictions of	Joshipura, Dr. A.	Council on		
	Thermophysical Properties	P. Vyas	Science and		
	of Biodiesel and its Blends		Technology		
			(GUJCOST)		
Total	Total Grant				

Ongoing Minor Research Projects Funded by External Funding Agencies

Sr. No.	Project Title	Project Investigator	Funding Agency	Grant (in ₹)
1.	Synthesis of Cross Linked Starch and Study its Application of in Taste Masking / Coating for Drug Delivery Application	Prof. Nimish Shah	Stabicoat Vitamins, Ahmedabad	71000/=
2.	Dynamic Characterization of Shock Table	Dr. S. P. Purohit, Dr. P. V. Patel	Gujarat Council on Science and Technology (GUJCOST)	7,40,000/=
3.	Establishment of Free Space Optical Communication Link for Real Time Audio Transmission	Prof. D. G. Shah, Dr. D. K. Kothari	Gujarat Council on Science and Technology (GUJCOST)	3,41,000/=
4.	Design of Low Noise, Low Power, Automatic Gain Controlled Amplifier for Biomedical Applications	Prof. D. J. Panchal, Prof. A I. Mecwan, Prof. V. G. Savani	Gujarat Council on Science and Technology (GUJCOST)	3,20,000/=
5.	Development of Microscopic Technique For Automatic Characterization of the Cell Organisation for Authentication of Few Indian Herbal Plants	Dr. T. H. Zaveri, Prof. B. D. Fataniya	Gujarat Council on Science and Technology (GUJCOST)	2,30,000/=



Total (Grant			₹ 48,42,000/=
11.	Reduction of E-Factor in Dyes and Pigment Industries (Environmental Pollution Control)	Dr. Parin Shah	Green Enviro nment Services Co- op. Soc. Ltd. – CETP	7,50,000/=
10.	Experimental Investigation on Ultrasonic Single Point Incremental Forming	Dr. B.A. Modi, Prof. A.M. Gohil, Dr K. M. Patel	Gujarat Council on Science and Technology (GUJCOST)	5,30,000/=
9.	Experimental Investigation of Life Cycle Analysis and Combustion Characteristic Of CI Engine Operating On Esterified Oil And Its Blends with Bio Additives (GUJCOST)	Dr. R. N. Patel, Prof. A. M. Lakdawala Prof. N. K. Shah	Gujarat Council on Science and Technology (GUJCOST)	8,10,000/=
8.	Spectrum Sensing Techniques in Cognitive Radio	Dr. Y. N. Trivedi, Prof. Hardik Joshi	Gujarat Council on Science and Technology (GUJCOST)	3,00,000/=
7.	Design of A Hybrid System for Seamless Communication Across DVB-RCS and LTE Networks	Dr. Y. N. Trivedi, Dr. N. P. Gajjar	Gujarat Council on Science and Technology (GUJCOST)	3,00,000/=
6.	Precision Agriculture Support System using Wireless Sensor and Actuator Network	Dr. D. K. Kothari, Prof. S. H. Gajjar, Prof. M.A. Upadhyay	Gujarat Council on Science and Technology (GUJCOST)	4,50,000/=

Sanctioned Minor Research Projects Funded by External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)



1. Development of Blind Hy Spectral Unmixing (BS Algorithm for Wa Pollutant Identification E to Sewage and Indus Disposals for So Karnataka Coast, Mangle Region	U) Prof. Pooja Shah ter ue try uth	ISRO – RESPOND	9,00,000/=
2. Development of Reinford Aerated Blocks w Innovative Compose Ingredients as Compress Members for Structu Applications with String Design Specifications	ith ite on ral	ISRO - RESPOND	8,00,000/=
3. Identification of Exist Road Material, Condition a Potential Parking Area Ahmedabad City us AVIRIS Data and Updat Plan of Undeveloped Road	nd Dr. Tanish Zaveri of ng on	ISRO	9,00,000/=
Total Grant			₹ 26,00,000/=

Completed Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Design and Development of intelligent Infrastructure prototype Model for Monitoring Railway Track		77,000/=
2.	Synthesis, Characterization and Application of Functionalised Macromolecule as Chemical Sensor	Prof. Neha Patni	1,00,000/=
3.	Synthesis of Spinels MFe2-xB'xO4 (M = Ni, Cu, Zn) and MFe2-xB'xO4/TiO2 Nano-composite as Novel Photocatalysts for Degradation of Dyes		1,00,000/=
4.	Fabrication, Characterization and Application of Electrodes for Electrochemical Waste Water Treatment	Prof. Priya Saxena	1,00,000/=
5.	Studies on Exploring Novel Excipients for Dmg Delivery in Oral Cavity	Prof. Nimish Shah, Dr. Dhaivat Parikh	1,80,000/=



6.	Evaluation of Mechanical and Durability Properties on Fly ash and Rice Husk based Geo Polymer Concrete		72,187/=
7.	Design and Fabrication of Radial Flux Permanent Magnet Brushless DC Motor	-	80,000/=
8.	Trend Analysis and Inclusion of HOTS in Engineering Education	Dr. Richa Mishra	1,00,000/=
9.	Test- Rig for Experimental Investigations of Bearing Faults in Rolling Bearings		1,00,000/=
10.	Development of Experimental Set Up for Determination of Stiffness Properties of Fibre Reinforced Composite using Vibration Testing	Prof. D. B. Shah	1,00,000/=
11.	Performance Evaluation of Solid Lubricants Mixed With SAE - 40 Oil Machining of EN- 31 Steel Material	Dr. K. M. Patel, Prof. M. A. Makhesana	90,000/=
Total (Grant		₹ 10,99,187/=

Sanctioned Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Development of High Temperature Applications using Fresnel Lens as Solar collector	Dr. R. K. Mewada	1,00,000/=
2.	Fabrication, Characterization and Application of Polymer in Solar Cell	Prof. Neha Patni	1,00,000/=
3.	Microwave Assisted Oil Extraction from Algae	Dr. M. Jhansi L. Kishore	1,00,000/=
4.	Development of low cost technique to remove copper from e-waste	Prof. Amita Chaudhary	1,00,000/=
5.	Design and Investigation of Advanced Control Schemes For Quadruple Conical Tank System"	-	1,00,000/=



6.	Investigation on Application of Minimum Quantity Solid Lubrication in Machining Process		60,000/=
7.	To Study Effect of Characterization Properties on Dimensional Control for Composite Product		1,00,000/=
8.	Investigations on Producer Gas Quality for Fixed Bed Gasifier	Prof. D. S. Upadhyay, Prof. N. K. Shah, Dr. R. N. Patel	1,00,000/=
9.	Use of Pervious Concrete for Solving Problem Related to Water Clogging at Nirma University Campus		1,00,000/=
10.	Simultaneous Localization and Mapping Using Autonomous Unmanned Aerial Vehicle	· ·	98,000/=
Total	Grant		₹ 9,58,000/=

Research Publications

Research Papers in Scopus / Web of Science Listed Journals

- 1. Raisinghani, B. M., and S. Purohit "Influence of Parameters on Performance Evaluation of Designed RC Buildings: Seismic Hazard" International Journal of Structural Engineering 7.4 (2016): 378-397.
- 2. Modhvadia, R. et al. "Evaluation of Permeability of Pervious Concrete with Adding Fine Aggregate." International Journal of Civil Engineering and Technology 7.6 (2016).
- 3. Shah, D. B., K. M. Patel, and R.D. Trivedi "Analyzing Hertzian Contact Stress Developed in a Double Row Spherical Roller Bearing and its Effect on Fatigue Life" Industrial Lubrication and Tribology 68.3 (2016): 361-368.
- 4. Makhesana, Mayurkumar Ashwinbhai, and Kaushik M. Patel. "Investigation to Study the Applicability of Solid Lubricants in Machining for Clean and Green Manufacturing" Industrial Lubrication and Tribology 68.5 (2016): 591–596.
- 5. Nimkar, S.C., and R. K. Mewada. "Effect of Catalyst Selectivity on Exergetic and Exergoeconomic Evaluation of Ethylene Oxide/ethylene Glycol Process." International Journal of Exergy 21.2 (2016):157-185.
- 6. Shantaiya, S., K. Verma, and K.K. Mehta "Multiple Object Clustering Using FCM and K-Means Algorithms" International Journal of Computational Vision and Robotics 6.4 (2016): 331-343.
- 7. Patel, D. et al. "To Study the Properties of Concrete as a Replacement of Cement with the Marble Dust Powder" International Journal of Civil Engineering and Technology 7.4 (2016).



- 8. Dave, J. M., and D. S. Sharma. "Stresses and Moments in through-Thickness Functionally Graded Plate Weakened by Circular/elliptical Cut-Out" International Journal of Mechanical Sciences 105 (2016): 146-157.
- 9. Joshi, T., and U. Dave. "Evaluation of Strength, Permeability and Void Ratio of Pervious Concrete with Changing W/C Ratio and Aggregate Size" International Journal of Civil Engineering and Technology 7.4 (2016).
- 10. Upadhyay, M. A., and D. K. Kothari. "Efficiency–fairness Trade-off Approaches for Resource Allocation in Cooperative Wireless Network" Vol. 380. pp. 47-60, 2016.
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- 23. Mawandiya, B. K., J. K. Jha, and J. B. Thakkar. "Two-Echelon Closed-Loop Supply Chain Deterministic Inventory Models in a Batch Production Environment" International Journal of Sustainable Engineering 9.5 (2016): 315–328.
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- 32. Shah, Dhaval, and Dilipkumar Kothari. "Mitigation of Fog and Rain Effects in Free-Space Optical Transmission Using Combined Diversity" Advances in Intelligent Systems and Computing 380 (2016): 725–733.
- 33. Gadhavi, L.J., and M.D. Bhavsar. "Efficient and Dynamic Resource Provisioning Strategy for Data Processing Using Cloud Computing" International Review on Computers and Software 11.8 (2016).
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- 41. Vyas, Swapnil S. et al. "Development of Real-Time Reference Evapotranspiration at the Regional Scale Using Satellite-Based Observations" International Journal of Remote Sensing 37.24 (2016): 6108–6126.
- 42. Singh, Jasbir et al. "Tunable Microwave Absorption in Co[sbnd]Al Substituted M-Type Ba[sbnd] Sr Hexagonal Ferrite" Materials and Design 110 (2016): 749–761.
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- 45. Priyanka, Bolem, and Sunil Raiyani. "Incorporation of Nano Particles in Pervious Concrete for Water Purification and Strength Improvement" International Journal of Civil Engineering and Technology, 2017, Vol. 8(4), page no. 629-637.

Research Publications in Other UGC Listed Journals during 2016

- 1. Patel, Jigar G., and Mitesh B. Panchal. "Design Analysis of Rotary Turret of Poucher Machine." Perspectives in Science 8 (2016): 310-312.
- 2. Bodana, Krushnaraj, et al. "An Application of Value Stream Mapping in Production Flow Analysis: A lean approach in An Automotive Industry" Nirma University Journal of Engineering and Technology 5.1 (2016): 21-28.
- 3. Bodana, Krushnaraj, and Bimal Kumar Mawandiya. "An Application of Taguchi Parameter Design in Predicting and Optimizing the Machining Parameters for Face Milling Operation" Nirma University Journal of Engineering and Technology 5.1 (2016): 29-33.
- 4. Patel, Paresh V., Vishnu H. Jariwala, and Sharadkumar P. Purohit. "Torsional Strengthening of RC Beams Using GFRP Composites." Journal of The Institution of Engineers (India): Series A 97.3 (2016): 313-322.
- 5. Kumar, Varinder, and P. V. Patel. "Strengthening of Axially Loaded Circular Concrete Columns using Stainless Steel Wire Mesh (SSWM)—Experimental Investigations" Construction and Building Materials 124 (2016): 186-198.
- 6. Kotecha, Aashka, and Shailee Patel Shivani Desai. "Aggregated Search-A rising need for Information Retrieval." Dept of Computer Science and Engg, Nirma University, Ahmedabad, India, IJCSC (2016).
- 7. Mecwan A. I. and Devashrayee N. M., "Linearity Analysis of Traditional Single and Double Balanced Down Conversion Mixers." Journal of VLSI Design Tools & Technology 6.1 (2016): 1 6.



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- 9. Bhadauriya, Harshit, et al. "Development of a Non-linear Process Control Test Bench and Empirical Investigation of Control Performance." International Journal of Advanced Technology and Engineering Exploration 3.23 (2016): 170.
- 10. Chakraborty, Amitayu. "Encountering Postcoloniality: An Exploration of Ngugi's Weep Not, Child." Daath Voyage: An International Journal of Interdisciplinary Studies in English1 1 (2016): 73-91.
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- 12. Pathak, Kunal, and Neeru Adlakha. "Finite Element Model to Study Two Dimensional Unsteady State Calcium Distribution in Cardiac Myocytes" Alexandria Journal of Medicine 52.3 (2016): 261-268.
- 13. Rana, K., et al." Design and Development of House Cleaning Robot" International Journal of Research and Scientific Innovation-4.1 (2016): 27-30.
- 14. Joshi, T., and U. Dave. "Parametric study of Pervious Concrete with Changing Cement Content and w/c Ratio" Indian Concrete Journal (ICJ) 91.6: 19-25.
- 15. Ray, Arundhati, et al. "Towards Identifying Optimal Quality Indicators for Evaluating De-Noising Algorithm Performance in SAR." International Journal of Computer Science and Communication. 7.1 (2016): 1-10.
- 16. Somani, Mishti, et al. "Identification of Trusted Elements with Malicious Behavior of Public Cloud against DoS Attack." International Journal of Computer Science and Communication. 7.1 (2016): 250-257.
- 17. Parikh, Vishal, et al. "Usability of Long Password in Web Application". International Journal of Computer Science and Communication. (2016): 154-158.
- 18. Nair, Anuja, and Shaina Thakkar. "AdWords: A Study of Usage and Tools." International Journal of Computer Science and Communication. 7.1 (2016): 95-99.
- 19. Shukla, Deepika., et al. "Empirical Performance comparison of OODBMS over RDBMS" International Journal of Computer Science and Communication. (2016): 83-88.
- 20. Ashishdeep, Anitha, et al. "Software Process Models for Mobile Application Development: A Review" International Journal of Computer Science and Communication. (2016): 150-153.
- 21. Oza, Meet, and Rupal Kapdi. "Brain Tumor Disease Identification Using Random Forest Classifier." International Journal of Computer Science and Communication. 7.1 (2016): 202-204.
- 22. Jigna Patel. "Data quality management tools and techniques" International Journal of Computer Science and Communication. 7.1 (2016): 198-201
- 23. Dakwala, Anuj, and Kruti Lavingia. "A Machine learning approach to improve the efficiency of Fake websites detection Techniques" International journal of computer Science and Communication (IJCSC) 7: 236-243.
- 24. Shah, Rutul, and Zunnun Narmawala. "Mobile Torrent: Peer-To-Peer File Sharing In Android Devices." International Journal of Computer Science and Communication. 7.2 (2016): 20-34



- 25. Nair, Anuja, and Shweta Notani. "Software Engineering Aided by Multimedia and Hypermedia." International Journal of Computer Science and Communication. 7.2 (2016): 101-107.
- 26. Savani, V. G., and N. M. Devashrayee. "Analysis and Characterization of Different Topologies of Dynamic Latch based CMOS Comparators for Delay, Offset and Power". Journal of VLSI Design Tools and Technology 6.1(2016): 86 98.
- 27. Shah, D. G., and D. K. Kothari. "Implementation of FSO link for Full Duplex Short Range Communication" Journal of Electronic Design Technology 7.1(2016):20 27.
- 28. Dutta, Ankan, et al. "Enhancing the Performance of Audio Visual Speech Recognition Using Deep Learning Techniques." International Journal of Computer Science and Communication 7.2 (2016): 126-135.
- 29. Parikh, Prof. Vishal, et al. "Improving Security in P2P File Sharing Based on Network Coding for DTN." International Journal of Computer Science and Communication 7.1 (2016): 167-172.
- 30. Bhatt, Divyesh, et al. "Medical Diagnosis System Using Machine Learning." International Journal of Computer Science and Communication 7.1 (2016): 177-182.
- 31. Malaram Kumhar, et al. "Ramsomware: A Threat to Cyber Security/" International Journal of Computer Science and Communication 7.1 (2016): 224-227.
- 32. Bhatt, Divyesh, et al. "Various Approaches to Recognise Human Emotions." International Journal of Computer Science and Communication 7.1 (2016): 173-176.
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- 34. Upadhyay, Tejal, et al. "Heart Disease Prediction Using Machine learning and Data Mining Technique" International Journal of Computer Science and Communication 7.1 (2016): 129-137.
- 35. Upadhyay, Tejal, and Dipendu Roy. "Lie Detection based on Human facial gestures." International Journal of Computer Science and Communication 7.1 (2016): 163-164.
- 36. Patel, Rima, et al. "Analysis of Energy Consumption in SET TOP BOX: A survey and Opportunities for Energy Saving" International Journal of Computer Science and Communication 7.1 (2016): 228-235.
- 37. Raval, Gaurang, and Foram Suthar "Securing Application Layer Protocol for IoT" International Journal of Computer Science and Communication 7.2 (2016): 42-48.
- 38. K, Ambica., "Riemann Problem in Non Ideal Gases." Indian Journal of Pure and Applied Mathematics 47.3 (2016): 501-521.
- 39. Rao, Ratna., "A Study of Ecofeminism in the Novel Mistress of Spice." IOSR Journal of Humanities and social Sciences 21.2 (2016): 46-49
- 40. Malhotra, Sandeep. "Computational Science of Vapor Liquid Two Phase Flow Inside Heat Exchange Tube." International Journal of Computer Science & Engineering 4.7 (2016): 148-153
- 41. Jayati Pandya, Amit N Patel, "Design and Analysis of Radial Flux Permanent Magnet Brushless DC Motor for Gearless Elevators" International Journal of Control Theory and Applications, ISSN: 0974-5572, Volume 9, No. 43, pp. 151-160, 2016.
- 42. Gauswamia, Vishal M., et al. "Simulation and Analysis of Stator Resistance Variation Compensation Technique for Direct Torque Controlled Induction Motor Drive." Volume 9, No. 43, pp. 151-160, 2016.



Books Published

Sr. No.	Name of the Faculty	Name of the Book	Name of Publishing	ISBN	Year of Publication
	v		House		
1.	Akhilesh A.	Electrical Circuit	New Age	978-93-	2017
	Nimje	Analysis and	International	86418-08-	
		Synthesis	Publishers	1	
2.	Sudeep	Mobile Computing	Bhavya	978-93-	2017
	Tanwar		Publication,	83992-25-	
			Delhi	6	
3.	Madhuri	Semantic enabled	Scholar Press	978-3-	2016
	Bhavsar	cloud for compute		659-	
		intensive applications		84189-7	

Patents Filed

Sr. No.	Name of the Inventors	Title of the Patent	Year	Status Filed / Published/ Granted
1.	Digesh Joshi, Paresh V. Patel, Alpesh I. Patel, Sharadkumar Purohit, and Harsh Khodidas Kapadia	Automated Synchronized Crack Monitoring System	2017	Published
2.	D. M. Adhyaru, Pallav Gandhi	Smart Modbus Based Device	2017	Published
3.	N. M. Devashrayee, Rajubhai K. Mewada, And Mamta Mainak Saiyad	Radiation Hardened Epoxy/Graphite Polymer Composite	2016	Filed
4.	Rajesh Patel, Sanjay Jain, Ankur Patel, Nihar Thakkar, Sanket Chaudhari, and Chirag Sonvane	Improvement In Performance of Pump Running In Turbine Mode By Provision Of Guide Vanes	2016	Filed
5.	Urmil Dave, Sonal Thakkar, Yash P. Khandol, Rishi Gupta, Yash P. Khandol, and Milan D. Patel	A Novel Composition for Alkali Activated Paver Blocks and a Process Thereof	2016	Filed



Ph.D. Awarded

Sr. No.	Name of the Student	Name of the Guide / Supervisor	Title of Thesis
1.	Patel Vimal Ranchhodlal	Dr. R. N. Patel	Experimental Studies on Lignite Gasification Process
2.	Khairnar Vaishali Dinesh	Dr. K. Kotecha	Study of reliability issues for Communication Protocols in Vehicular Ad-hoc Networks
3.	Sachin Gajjar	Dr. K. S. Dasgupta	Cross layer Protocols and Architecture for Wireless Sensor Networks
4.	Nimkar Samir Chandrakant	Dr. Raju Mewada	Exergy Analysis of Nitric Acid, Ethylene Oxide/ Ethylene Glycol Processes and Methanol Reactor
5.	Jain Sanjay Kumar Virendra	Dr. R. N. Patel	Experimental and Numerical Investigations on Pump running in Turbine mode for Micro Hydropower Plants
6.	Shah Ankit Kiritkumar	Dr. D. M. Adhayaru	Model based Control of Hybrid Nonlinear Dynamical System
7.	Patel Niravkumar Pravinbhai	Dr. D. S. Sharma	Stress analysis and optimization of a Laminated Composite plate weakened by Discontinuity
8.	Patel Chirag Ishwarbhai	Dr. Sanjay Garg	Analysis and Development of Human Action Recognition Techniques for Video Sequences
9.	Patel Sanjay Prahladbhai	Dr. K. Kotecha	Enhancing Performance of pattern mining methods
10.	Upadhyay Manisha J.	Dr. D. K. Kothari	Development, Simulation and Analysis of Resource Allocation Techniques for Cooperative Wireless Network
11.	Ukani Vijaykumar Shantilal	Dr. Tanish Zaveri	BorderMon: An Energy Efficient Framework for Border Surveillance using Wireless Multimedia Sensor Networks



12.	Nimish Rajnikant Shah	Dr. Raju Mewada	Polymer Synthesis,
		and Dr. Tejal	Characterization and
		Mehta	Exploring their
			Pharmaceutical Applications
13.	Nilesh Dhirajlal Ghetiya	Dr. K. M. Patel	Experimental Investigations
			into Immersed Friction Stir
			Welding of AA2014-T6
14.	Kedar Prasad Agrawal	Dr. Sanjay Garg	Clustering and Time Series
	_		Prediction for Spatio-
			Temporal Geographic Dataset

Research Awards

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty Member	Recognition / Honor / Award	Reason for Recognition / Honor / Award	Name of the Organization
1.	Dr. Priyanka	First Prize in	Poster	ACM-W India
	Sharma	Poster	Presentation	Celebration of Women
		Presentation		in Computing – 2016
2.	Dr. Dhaval	US Fulbright-	For attending	US Fulbright-Nehru
	Pujara	Nehru	International	Commission
	-	Fellowship	Education	
			Seminar	
3.	Dr. Dhaval	Ranked Second	Best Paper	Indicon - 2016
	Pujara	Best Paper in the		International
		Microwave		Conference organized
		Technology		by the IEEE India
		Track		Council
4.	Prof. Narasimha	First Prize	Paper	National conference on
	Reddy Ravuru		Presentation	Inter and Intra
				Disciplinary Blend of
				Chemical Engineering,
				VNIT, Nagpur
5.	Prof. Neha Patni,	Best Poster	Poster	IIT, Gandhinagar
	Dr. Shibu Pillai	Presentation	Presentation	
6.	Prof. Leena	Best Paper	Best Paper	B K School of
	Bora,			Management,
	Dr. R K			Ahmedabad
	Mewada, Mr.			
	Meet Shah,			
	and			
	Mr. Rushabh			
	Patel			



7.	Dr. Parin Shah	Best M.Tech.	Guided Ms.	Indian Society for
		Thesis in	Ashwini D.	Technical Education -
		Chemical Engg.	Karlekar	IPCL
		(Energy System)	(Energy	
		- 2016	System) – 2016	
8.	Dr. Madhuri	Best Paper	Best Paper	IEEE International
	Bhavsar	Award		Conference on Global
				Trends in signal
				processing, Information
				Computing and
				Communication

Research Awards Received by the Students

Sr. No.	Name of the Faculty Member	Recognition / Honor / Award	Reason for Recognition / Honor / Award	Name of the Organization
1.	Meet Shah, Rushabh Patel	Best Paper Award	Best Paper	B.K. School of Management,
	Rushuon 1 uto1	Tiwara		Ahmedabad
2	Ashwini D. Karlekar	ISTE-IPCL Best M.Tech. Thesis in Chemical Engg 2016	M. Tech. Thesis	Indian Society for Technical Education - IPCL
3	Harshit Bhadauriya	Best Paper Award	National Conference	National Conference on Process Automation and control (NCPAC 2016), Malviya National Institute of Technology, Jaipur

Travel Grant Received by the Faculty Members / Students

- 1. Dr. Dhaval Pujara, Professor, Department of Electronics & Communication Engineering, Institute of Technology received travel grant of ₹ 70,000/- from Department of Science & Technology (DST), New Delhi and ₹ 22,000/- from Nirma University to attend the 11th European Conference on Antennas and Propagation (EUCAP) at Paris, France. During the conference, he presented two papers titled, "Suppression of Mutual Coupling in Wideband Tree Shaped Fractal DRA Array for MIMO Applications" and "Design and Optimization of a 183 GHz Corrugated Horn for Humidity Sounder Using ANFIS".
- 2. Dr. Usha Sandeep Mehta, Professor, Department of Electronics & Communication Engineering, Institute of Technology received travel grant of ₹ 28, 432/- from Department of Science & Technology (DST), New Delhi to attend 2016 IEEE Region-10 Conference, TENCON at Singapore. During the conference, she presented a paper titled, "Photonic Sensor for railway track safety".



- 3. Dr. Mehul Naik, Associate Professor, Department of Electronics & Communication Engineering, Institute of Technology received travel grant of ₹ 29,491/- from Nirma University to attend 2016 IEEE Region-10 Conference, TENCON at Singapore. During the conference, he presented a paper titled, "Design and Simulation of X Band Microstrip Circulator".
- 4. Prof. Vaishali Dhare, Assistant Professor, Department of Electronics & Communication Engineering, Institute of Technology received travel grant of ₹ 28, 819/- from Department of Science & Technology (DST), New Delhi to attend 2016 IEEE Region-10 Conference, TENCON at Singapore. During the conference, she presented a paper titled, "Development of Basic Fault Model and Corresponding ATPG for Single Input Missing Cell Deposition Defects in Majority Voter of QCA".
- 5. Prof. Manisha T. Shah, Assistant Professor, Department of Electrical Engineering, Institute of Technology received travel grant of ₹ 60,856/- from Nirma University to attend IET 8th International Conference on Power Electronics Machine and Drive (PEMD), at Scotland, United Kingdom. During the conference, she presented a paper titled, "Generalized current control scheme for unity power factor two level and three-level bi-directional front-end converters: an approach for multi-level front-end converters".
- 6. Prof. Urmil V. Dave, Professor, Department of Civil Engineering, Institute of Technology received travel grants of INR 20,000/- from Centre for International Co-operation in Science (CICS) and of INR 30,000/- from Indian National Science Academy of to attend 9th International Concrete Conference 2016 on "Environment, Efficiency and Economic Challenges" held at University of Dundee, Scotland, UK from July 04-July 06, 2016. The conference was organized by the Concrete Technology Unit (CTU), Department of Civil Engineering, School of Science and Engineering, University of Dundee, Scotland, UK. During the conference, he presented two papers titled, "Evaluation of Properties of No-Aggregate Concrete by Incorporation of Fibres" by Chintan Gajera and Urmil Dave and "Enhancing Durability of Plain Cement Concrete by incorporating GGBS" by Bhautik Sojitra and Urmil Dave. Prof. U. V. Dave worked as the scientific and technical committee member for the conference. He also chaired a technical session on theme "Low Carbon Cements and Concrete" consisted of four technical presentations of 20 minute each on July 04, 2016.

Conferences / Seminars / Workshops

National Symposium Organized by the Institute

National Symposium on "Recent Advances and Future Trends in Chemical Technology (RAFTCT)-2016" was organised by the Chemical Engineering Department, Institute of Technology on September 24, 2016.

A key feature of the RAFTCT was a dedicated symposium for young researcher working in the recent research areas of chemical technology. Around 200 delegates participated from reputed Institutes of Bangalore, Delhi, Rajasthan, Meerut, Gujarat, etc. With close to 110 posters were presented and the abstracts of all posters were published. Abstract cum Souvenir booklet and



e-proceedings were released. Eminent personalities like, Shri Prakash Jha, (Coordinator, Central University of Gujarat), and Shri Harshad Patel, Head, (CoE, Adani Port & SEZ ltd.) delivered invited talks during the symposium. All the delegates and participants had a technically rich experience at the RAFTCT.

Seminar Organized by the Institute

The ISTE approved short term training programme titled, "Challenges and Innovative Solutions in Electrical Power System" was organized by the Department of Electrical Engineering. Institute of Technology under the auspices of the Academic Development & Research Cell, during June 20 – July 02, 2016. The programme focused on the issues in modern – deregulated power grid and deliberated on probable solutions. The experts ranged from Professors of IISc and IITs, practising researchers and industry experts delivered lectures during the programme. The participants were enlightened by the thought provoking discussion with Prof. D. Thukaram, Prof. L. Satish, Prof. Udaya Kumar from IISc, Bangalore, Prof. Trapti Jain from IIT, Indore and Prof. K. Ragavan from IIT, Gandhinagar. Participants had a chance to interact with Shri Anand Kumar, Chairman, GERC, Shri Uday Trivedi, Associate VP, Adani Power Ltd. and Dr. Manoj Mandlik, Senior R & D manager, Crompton and Greaves Ltd., Nashik. Professors from prominent institutes like L. D. College of Engineering, Govt. Engineering Colleges and SVNIT, etc were also among the experts who interacted with the participants. Field visit to Gandhinagar Thermal Power Plant gave clear picture of happening on the ground whereas simulations on PSCAD software helped visualizing critical issues. The continuous evaluation made everyone to think - collaborate and interact among themselves. On a good note, the programme was brought to successful completion for 21 enthusiastic participants in the domain of electrical power system.

Electronics & Communications Engineering department has conducted, Indian Society Technical Education (ISTE) approved, Short Term Training Programme on, "VLSI and Embedded System Design" Under the auspices of the Academic Development & Research Cell, Nirma University during June 20, 2016 to July, 02, 2016. The coordinators of this programme were Prof. Usha Mehta and Prof. Sachin Gajjar. Dr. Shantanu Chaudhari, Director, CERI, Pillani and other eminent speakers from Industry and academia have conducted the sessions for participants. More than 25 participants have actively participated in the programme.

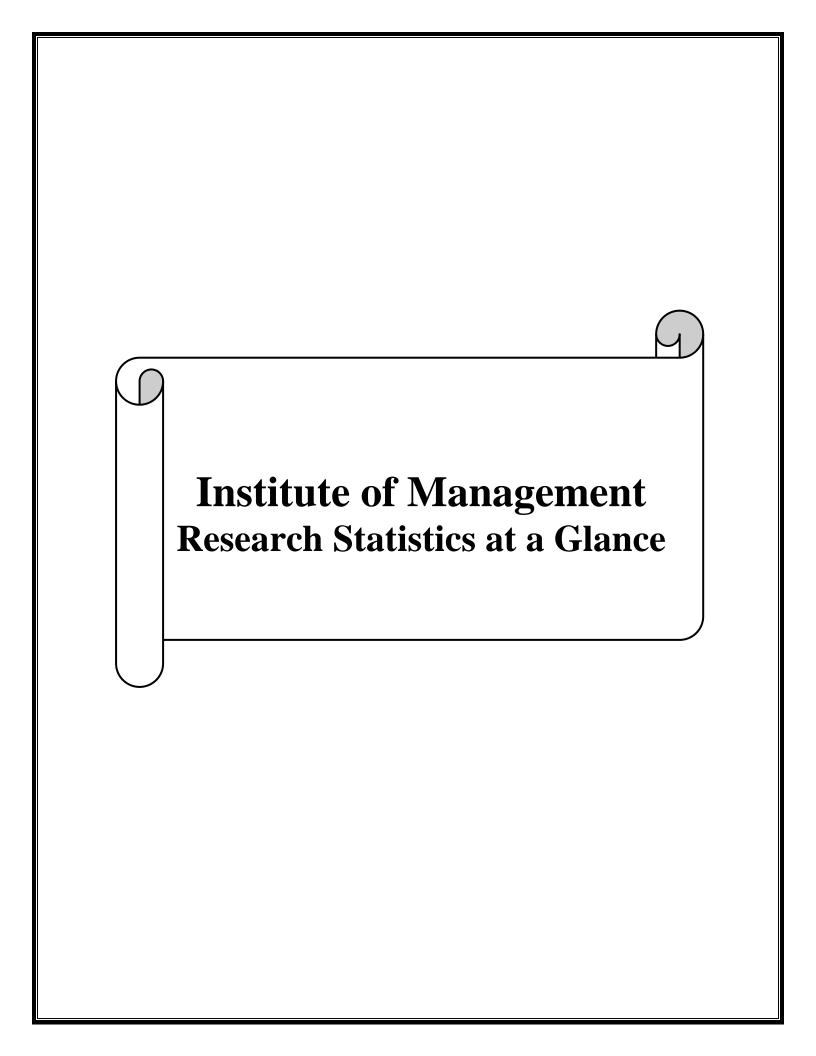
Civil Engineering department has conducted, Indian Society Technical Education (ISTE) approved, Short Term Training Programme on, "Emerging Trends in Civil Engineering" Under the auspices of Academic Development & Research Cell, Nirma University during June 20, 2016 to July, 02, 2016. The coordinators of this programme were Dr.P.V.Patel, Head, Civil Engineering Department. Eminent speakers from Industry and academia were invited to deliver expert talk to participants. More than 15 participants have actively participated in the programme. Site visit was arranged to Kesarjan where low cost sustainable blocks are manufactured.

ISTE Approved Short Term Training Programme on, "Current Practices in Mechanical Design" 20th Jun – 2nd Jul 2016 Under the Auspices of Academic Development & Research Cell, Nirma



University Organized by Mechanical Engineering Department, Institute of Technology, Nirma University. Total 16 faculty members were participated. The STTP was coordinated by Dr. S.J. Joshi and Dr. M.B. Panchal. All participants were undergone visit at ISRO and ATIRA during STTP.

Information and Technology department has conducted an ISTE approved STTP during 27/06/2017 to 07/07/2017 (10 days). Title of the program was "Research Avenues in Computational Intelligence & its Applications". Eminent experts from various premier organizations like DAIICT, ISI, Kolkata, IIT, Gandhinagar, Nanyang Technological University, Singapore were invited to deliver talk to participants. Dr. Ankit Thakkar was the coordinator of programme.





Institute of Management - Research Statistics at a Glance

April 01, 2016 - March 31, 2017

Minor Research Projects	Total	
Ongoing Minor Research Projects Funded	Projects Ongoing	01
by the External Funding Agencies	Total Grant	₹ 6,00,000/=
Completed Minor Research Projects	Projects Completed	05
Completed Funded by Nirma University	Total Grant	₹ 1,85,800/=
Ongoing Minor Research Projects Funded	Projects Ongoing	06
by Nirma University	Total Grant	₹ 3,43,240/=
Research Publications		
Research Publications in UGC, Scopus and	nd Web of Science Listed	02
Journals during the calendar year 2016		
Research Publications in Other UGC Listed	09	
Cases Published	05	
Books Published		06
Book Chapters Published		33
Articles Published		09
Doctoral Research		
Ph.D. Degree Awarded		01
Total Ph.D. Students from Management Disc	cipline	57
Total Ph.D. Guides from Management Disci	18	
Conferences / Seminars		
International / National Conferences Organiz	zed by the Institute	03
Seminars / Workshops / Refresher Courses O	Organized by the Institute	01



Research Projects

Minor Research Projects

Ongoing Minor Research Projects Funded by External Funding Agencies

Sr.	Project Title	Project Investigator	Funding Agency	Grant (in ₹)
1.	1	Prof. M. Mallikarjun and Prof. Nikunj Patel	Gujarat Social Infrastructure Development Society	6,00,000/=
Total (₹ 6,00,000/=			

Completed Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Robust Methods for Income Distribution Models	Prof. Mahesh K.C., Prof. Dhiren Jotwani	21,000/=
2.	A Study of HR Practices and Issues in Gaglani Metal Industries in Ahmedabad	Prof. Reena Shah	17,800/=
3.	Needs and Barriers of Online Shopping – An Exploratory Study of Indian Shoppers		34,000/=
4.	Employee Work Passion : Creating a Motivating Work Environment	Prof. Nina Muncherji	73,000/=
5.	Study of Devotees and Prasadalaya Management at Shri Sai Baba Temple, Shirdi	Prof. Nityesh Bhatt	40,000/=
Total Gr	ant		₹ 1,85,800/=

Ongoing Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Investor's Behaviors towards Mutual Fund Investing with reference to Investors in Gujarat	Prof. Parag Rijwani, Prof. Jayesh P. Aagja	30,000/=



Total G	₹ 3,43,240/=		
6.	Negative Externalities Caused by Aesthetic Pollution (Environmental Economics)	Prof. Nirmal C. Soni, Prof. Naresh Poturaju	32,800/=
5.	Teaching Learning Entrepreneurship: An Impact Study	Dr. Shahir Bhatt, Prof. Amola Bhatt	21,000/=
4.	Study on Efficiency of Stock Futures Market in India	Prof. Deepak Danak, Prof. Nikunj Patel	99,440/=
3.	Succession Planning in Family Owned Businesses	Dr. Sameer Pingle, Dr. Jayesh Aagja	60,000/=
2.	Modeling Performance measurement of Service Organizations using Data Envelopment Analysis (DEA)	Dr. Chetan A. Jhaveri	1,00,000/=

Research Publications

Research Papers in Scopus / Web of Science Listed Journals

- 1. Shah, H., and A. Singh. "Managing the IT Millennials HR Imperatives and Interventions." International Journal of Intelligent Enterprise 3.3–4 (2016): 282–296.
- 2. Shah, Reena, and Ruchi Tewari. "Demystifying 'selfie': A Rampant Social Media Activity." Behaviour & Information Technology 35.10 (2016): 864–871.

Research Papers in Other UGC Listed Journals

- 1. Bhatt, Amola, and Shahir Bhatt. "FDI in e-Commerce Market place Model: Issues and Challenges" South Asian Journal of Socio-Political Studies. 17(2016): 78-81
- 2. Jotwani, Dhiren. "Ease of Doing Business in Selected Major Indian States: Does Bank Credit Lead to Productivity?" Amity Journal of Management Research (2016).
- 3. Chugan, Pawan K., and Upinder Dhar. "The Role of Human Resources in New Transfer Pricing Regime." AIMS Journal of Management. 2(2016):59-69
- 4. Shah, Reena. "Work-Life Balance: State Interventions in India" Pacific Business Review International. (2016)
- 5. Parashar, Sapna. "Multichannel Behaviour with Special Reference to Apparels" ELK Asia Pacific Journal of Marketing and Retail Management. 7(2016):21-31
- 6. Bhatt, Amola, and Shahir Bhatt. "Microfinancing with SEWA Bank: Bringing Women to the Mainstream Economy." Amity Business Review. 17.1 (2016).
- 7. Jain, Rajesh. "Early Estimation of Crop Sown Area by Integrating Multi-Source Data". Journal of Geomatics. 10(2016):80-88
- 8. Chugan, Pawan K., and Upinder Dhar. "The Role of Human Resources in New Transfer Pricing Regime" (2016). AIMS Journal of Management.2(2016):59-69



9. Bhatt, Amola, and Shahir Bhatt. "Microfinance Institutions: Do they Empower Women? A Case Study of Light Microfinance Pvt. Ltd." NMIMS Management. 28(2016): 73-92

Books Published

Sr.	Name of the	Name of the Book	Name of	ISBN	Year of
No.	Faculty		Publishing House		Publication
1.	Rajesh K.	Lean Imperatives	American	978-81-	2016
	Jain,	Lessons from Indian	Society for	930216-2-0	
	Himanshu	Organizations	Quality		
	Trivedi	_	India		
			Private		
			limited,		
			New Delhi		
2.	Sapna	Services in	Excel India	978-93-86-	2017
	Parashar,	Emerging Markets	Publisher	256-33-1	
	Jayesh Aagja,				
	Tripurasundari				
	Joshi				2017
3.	Tripurasindari	Consumer Behaviour	Excel India	978-93-86-	2017
	Joshi, Jayesh	& Contemporary	Publisher	256-92-4	
	Aagja,and	Marketing Strategy			
	Sapna Parashar				
4.	Ashwini	Research Trends in	Excel India	978-93-	2017
4.	Ashwini Awasthi,	Economics, Finance	Publisher	8577-44-8	2017
	Shahir Bhatt	and Human	1 donsilei	0377-44-0	
	Shaini Bhatt	Resource			
		Management			
5.	Ashwini	Research Trends in	Excel India	978-93-	2017
	Awasthi,	Marketing	Publisher	85777-45-5	
	Nikunj Patel	Management and			
	•	General			
		Management			
6.	Indu Rao	Introduction to	McGraw		2017
		Organization	Hill		
		Behaviour	Education		
			(India) Pvt.		
			Ltd.		

Book Chapters Published

Sr.	Name of the	Title of the	Name of the	Name of	Year of
No.	Faculty	Chapter	Book	Publishing House	Publication



1.	Thomas, Binu, Pawan K. Chugan and Deepak K. Srivastava	Pharmaceutical Research and Licensing Deals in India	Macro and Micro Dynamics for Empowering Trade and Industry in Society	Excel India Publishers	2016
2.	Panchal, Nilam, W.C.Singh, and P.K.Chugan	Formal Financial System and Accessibility by MSMEs: A Survey	Macro and Micro Dynamics for Empowering Trade and Industry in Society	Excel India Publishers	2016
3.	Mehta, Kathak and P. K.Chugan	Make in India: Opportunities in Technical Textiles Sector	Macro and Micro Dynamics for Empowering Trade and Industry in Society	Excel India Publishers	2016
4.	Rajak, Ram and Rajesh K. Jain	Toward Improved Crop Acreage Estimation Using Multi-Source Information	Macro and Micro Dynamics for Empowering Trade and Industry in Society	Excel India Publishers	2016
5.	Jhaveri, Chetan and Anurodhsingh Khanuja	Recent trends of OR Tools in Supply Chain Management: A Literature Review and Framework	Macro and Micro Dynamics for Empowering Trade and Industry in Society	Excel India Publishers	2016
6.	Mehta, Neha and Pawan Kumar Chugan	Developing High Performance Work System in Retail Outlet	Macro and Micro Dynamics for Empowering Trade and Industry in Society	Excel India Publishers	2016



7.	Soni, Nirmal	A Case Study of	Macro and	Excel India	2016
		the Social	Micro	Publishers	
		Enterprise 'Life	Dynamics for		
		Skill Foundation'	Empowering		
		Imparting Self	Trade and		
		Employment	Industry in		
		Skills	Society		
8.	Chatterjee,	An Assessment	Macro and	Excel India	2016
	Siddhartha and	Of TQM Driven	Micro	Publishers	
	T.S Joshi	Performance	Dynamics for		
		Appraisal	Empowering		
		Systems In	Trade and		
		Organisations	Industry in		
			Society		
9.	Chatterjee,	Improving	Macro and	Excel India	2016
	Monali	Prospects of	Micro	Publishers	
		Employability	Dynamics for		
		through Soft	Empowering		
		Skills	Trade and		
			Industry in		
			Society		
10.	Singh, Ritika	Skill Requirement	Macro and	Excel India	2016
	and Rajesh	& Development in	Micro	Publishers	
	Kikani	India: Need,	Dynamics for		
		Challenges And	Empowering		
		Strategies	Trade and		
			Industry in		
			Society		
11.	Kaur,	A	Macro and	Excel India	2016
	Amandeep and	Multidimensional	Micro	Publishers	
	Yogesh Doshit	Poverty Standard	Dynamics for		
		of Living	Empowering		
		Conditions (MP-	Trade and		
		SLC) Assessment	Industry in		
		of Gujarat's Most	Society		
		Deprived			
		Population			
12.	Bhatt, Shahir	Assessing E-	New Age	Excel India	2016
	and Amola	service Quality	Ecosystem for	Publishers	
	Bhatt	Dimensions in	Empowering		
		Online Shopping	Trade, Industry		
	İ	i e	and Society	l	



				1	
13.	Bhatt, Nityesh	Mobile Based	New Age	Excel India	2016
	and Yogesh	Marketing: Tools	Ecosystem for	Publishers	
	Mungra	and Applications	Empowering		
			Trade, Industry		
			and Society		
14.	Guru, Sunita	Perceived Risk:	New Age	Excel India	2016
		Analysis of	Ecosystem for	Publishers	
		Literature on	Empowering		
		Online Shopping	Trade, Industry		
		Situations	and Society		
15.	Makhija,Diljeet	RFID Based	New Age	Excel India	2016
	kaur and Pawan	Library	Ecosystem for	Publishers	
	K. Chugan	Management	Empowering		
		System: The	Trade, Industry		
		Benefits and	and Society		
		Challenges	·		
16.	Patel, Chitral	Green Marketing:	New Age	Excel India	2016
	and Pawan K.	A Study of	Ecosystem for	Publishers	
	Chugan	Consumer	Empowering		
		Purchase	Trade, Industry		
		Behaviour for	and Society		
		Green Homes	-		
17.	Chandrakant	Environmental	New Age	Excel India	2016
	Soni, Nirmal	Concern and	Ecosystem for	Publishers	
	and Pankti	Their Impact on	Empowering		
	Dalal	International	Trade, Industry		
		Trade	and Society		
18.	Soni, Nirmal	Scope of Bio-	New Age	Excel India	2016
	and Sudeep	fibers in Textile	Ecosystem for	Publishers	
	Modh	Export from India	Empowering		
		_	Trade, Industry		
			and Society		
19.	Shah, Dipesh	Key requirements	New Age	Excel India	2016
	and Pawan K.	for setting up a	Ecosystem for	Publishers	
	Chugan	successful	Empowering		
	-	International	Trade, Industry		
		Financial Services	and Society		
		Centre (IFSC) in	•		
		India			
20.	Dave, Niyati	Understanding the	New Age	Excel India	2016
	and Dhanyu	Implicit: A View	Ecosystem for	Publishers	
	Arun	on Investment	Empowering		
		Criteria in	Trade, Industry		
		Startups by	and Society		
		Angels			



21	I. (D1- C 1'4	NT A	E1 I1'-	2016
21.	Jotwani, Dhiren	Bank Credit as a Measure of Ease of doing Business: A Study of Indian States	New Age Ecosystem for Empowering Trade, Industry and Society	Excel India Publishers	2016
22.	Guru, Sunita	Big Billion Days	New Age Ecosystem for Empowering Trade, Industry and Society	Excel India Publishers	2016
23.	Bhatt, Amola, Sweety Shah and Shahir Bhatt	A Study of Personal Financial Planning Process and Socio- Economic Decision-making in Households	Interdisciplinary Issues for Empowering Trade, Industry and Society	Excel India Publishers	2016
24.	Patel, Nikunj	An Investigation of Day-of-the- Week Effect	Interdisciplinary Issues for Empowering Trade, Industry and Society	Excel India Publishers	2016
25.	Rajpurohit, Punita and Shantanu Mehta	Effect of the Macroeconomic Variables on Index Return: A Study With Respect To CNX 500	Interdisciplinary Issues for Empowering Trade, Industry and Society	Excel India Publishers	2016
26.	Danak, Deepak	Impact of Research & Development Expenditure on Value Creation For Shareholders: A Study of Pharmaceutical Industry in India	Interdisciplinary Issues for Empowering Trade, Industry and Society	Excel India Publishers	2016
27.	Soni, Nirmal and Shreya Biswas	Correlation of Firms Performance with Financial Ratios	Interdisciplinary Issues for Empowering Trade, Industry and Society	Excel India Publishers	2016



28.	Jhaveri, Chetan	Measuring	Interdisciplinary	Excel India	2016
۷۵.	and Pallav	Performance of	Issues for	Publishers	2010
	Gupta	Banks in India	Empowering	Fublishers	
	Gupta	using Data	Trade, Industry		
		Envelopment	and Society		
		Analysis	and Society		
29.	Rajpurohit,	Value Relevance	Interdisciplinary	Excel India	2016
29.	Punita and	of Contingent	Issues for	Publishers	2010
	Deepak Danak	Liabilities:	Empowering	1 donshers	
	Deepak Danak	A Study of	Trade, Industry		
		Pharmaceutical	and Society		
		Industry in India	and Society		
30.	Rijwani, Parag	Are Multi-Cap	Interdisciplinary	Excel India	2016
30.	Kijwaiii, i arag	Funds Worth the	Issues for	Publishers	2010
		Risk?	Empowering	1 donshers	
		KISK:	Trade, Industry		
			and Society		
31.	Poturaju,	Comparative	Interdisciplinary	Excel India	2016
31.	Naresh and	Analysis of Cash	Issues for	Publishers	2010
	Poturaju,	and Futures	Empowering	1 donshers	
	Vandana N.	Market of India	Trade, Industry		
	Astahna, A K.	Warket of India	and Society		
32.	Mehta, Neha	Visual	Interdisciplinary	Excel India	2016
	and Chugan,	Merchandising as	Issues for	Publishers	
	Pawan	Tool for Creating	Empowering		
		Differentiation for	Trade, Industry		
		Furniture Outlets:	and Society		
		Perceptual			
		Mapping			
33.	Chatterjee,	Learning	Interdisciplinary	Excel India	2016
	Monali	Objectives of	Issues for	Publishers	
		Communication	Empowering		
		Instruction in	Trade, Industry		
		Professional	and Society		
		Education	_		

Cases Published

Sr. Name of Author No.		Title of Case	Year
1.	Ritesh Jayantibhai Patel	Mojjo Tattoo Studio - A Budding business of an artist	2016
2.	Amola Bhatt and Shahir	Women Empowerment in Rural Gujarat: A	2016
	Bhatt	Case Study of Kaira Social Services Society	



3.	Amola Bhatt and Shahir Bhatt	Microfinancing with SEWA Bank: Bringing Women to the Mainstream Economy	2016
4.	Amola Bhatt and Shahir Bhatt	Microfinance Institutions: Do they Empower Women? A Case Study on Light Microfinance Pvt Ltd.	2016
5.	Nirmal Chandrakant Soni	A case study on the Social Enterprise 'Life Skill Foundation' imparting self employment skills.	2016

Ph.D. Awarded

Sr.	Name of the	Name of the Guide	Title of Thesis	
No.	Student			
1.	D. Jegatheesa	Dr. Bindi Mehta	Energy Security for India: An Analysis of	
	Pandian		Issues and Challenges for Policy	
			Development	

Conferences / Seminars / Workshops

National Conference Organized by the Institute

6th Annual Conference on Quality Management

The Institute organized the subject conference jointly with American Society for Quality (ASQ) Local Member Community Ahmedabad on 26-27 November 2016. The theme of the conference is "Lean Imperatives: Lessons for Indian Organizations". The conference was attended by more than 200 participants including approximately 80% from Industry and 20% from academia covering four states of India.

The Chief Guest Mr. Hans Bangert, Managing Director, Bosch Rexroth India; Guests of Honour Mr. Denis Devos, (Vice Chair, QMD, ASQ USA); Ms Stephanie Thompson, Chair Elect, Phoenix Section, ASQ USA, Dr. Anup Singh, Director General; Mr Ciby James, Director, ASQ India, among others inaugurated the Conference.

The Conference also witnessed the presentation of 36 live case studies by the senior executives from various organizations including ABB, Adani Port, APAR, BTPS, Dresser Rand, Ford, Gujarat Alkalies & Chemicals, Gulbrandsen, HDFC Bank, Hindustan Coca Cola, Hitachi Hi-Rel, L&T, Lupin, Polycab, Reliance, Rotex Automation, Solution Analysts, Sabarmati Gas, Tata Chemicals, TCS, Welspun, Zydus, among others.

As the pre-conference activities, two special workshops have been scheduled on ISO 9001:2015 and on Minitab for Research by Mr. Denis Devos, Canada and Mr. Bimal K Kesh, Sr. Statistician and Training Manager, Qsutra-Minitab, Bangalore.



20th Nirma International Conference on Management (NICOM)

The 20th Nirma International Conference on Management (NICOM) was organized by Institute of Management, Nirma University during January 05-07, 2017. The central theme of the Conference was "Contemporary Marketing: Concept, Practice & Method" and had number of sub-themes. In total, 195 abstracts, and 120 full papers were received from India and abroad. The papers were sent for two rounds of blind review and thereafter, based on the feedback, selected papers were published in two books as Conference Proceedings with ISBN number by Excel India Publications, New Delhi.

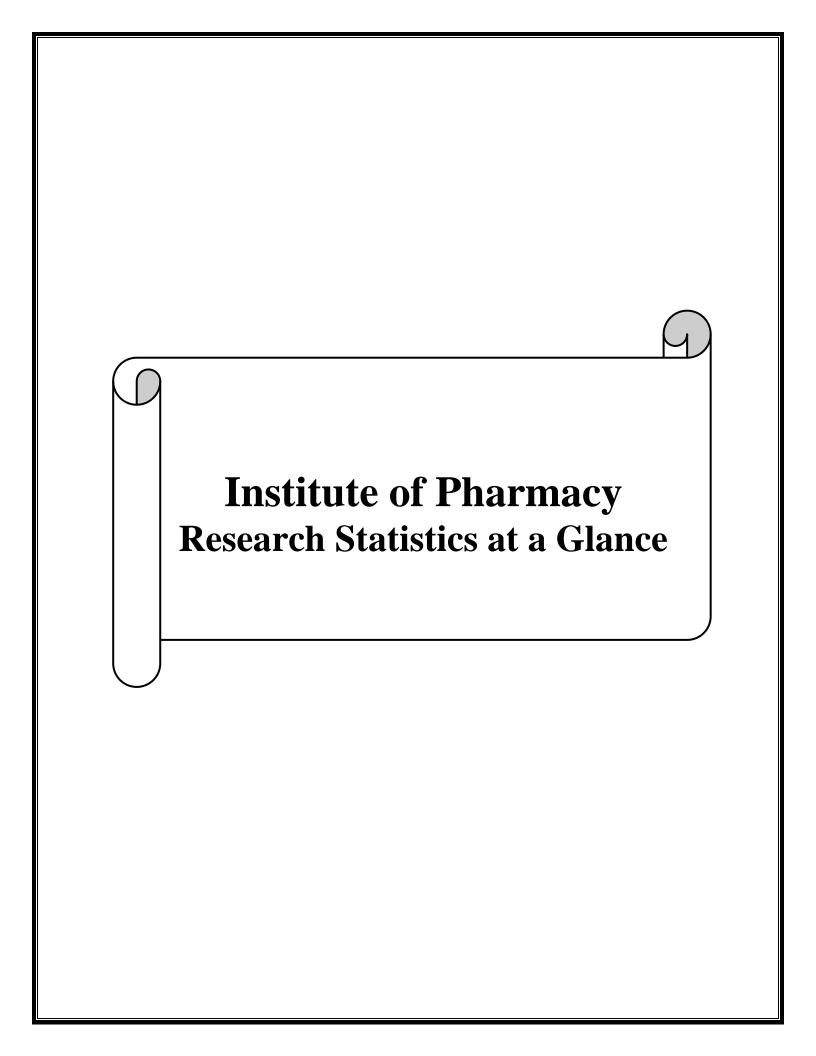
The conference was inaugurated on January 05, 2017. The chief guest of the inaugural session Mr. M.G. Parmeswaran, Brand Strategist, Founder at Brand-Building.com and former CEO, FCB Ulka threw light on the role that emotional advertisements play in attracting consumers and discussed the changes that need to be brought forth in social and digital marketing under the ambit of contemporary marketing. The Guest of Honour for the occasion, Mr. Tarun Arora, COO and Director, Zydus Wellness Limited further emphasized upon the fact that consumers have become more expressive and demanding than ever before and thus consumers are no longer mere recipients but are also involved along with the marketer in brand creation and thus special emphasis on data analytics must be applied to successfully reach the target segment. The inaugural function was also graced by Padma Shri Dr. Karsanbhai K. Patel, President, Nirma University. In addition to the inauguration and valedictory sessions, there were three plenary sessions delivered by reputed national speakers.

Anvesh - Doctoral Research Conference

Institute of Management, Nirma University, Ahmedabad under the aegis of its Doctoral Programme in Management organized Doctoral Research Conference in Management in April 2016. The conference had 4 workshops, 12 track sessions with 49 presentations and 6 research clinics, over the two days. It had received 91 abstracts 41 full Papers which were accepted for publication after a blind review.

Dr. Arvind Sahay, Professor from IIM Ahmedabad delivered the inaugural address. He talked about the latest trends in consumer behavior, one of them being neuroscience. The track sessions and research clinics were in the area of Economics & Finance, Marketing Management, Human Resource Management & Organizational Behaviour, Operations Management and General Management. For research clinic six experts were invited. Dr. A.C. Brambhatt and Dr Vivek Suneja for Marketing area, Dr. R. J. Mody and Dr. Tara Nair for Finance & Economics area and Dr. D. M. Pestonjee and Dr. Dutta Roy for Organizational Behaviour & Human Resource Management area.

Apart from track sessions and research clinics, as a part of conference, four expert sessions were organized. Dr. Dutta Roy, Asst. Professor, Indian Statistical Institute – Kolkata delivered expert lecture on 'Designing Questionnaire for Doctoral Research in Management.' He discussed at length some pertinent issues related to questionnaire design.





Institute of Pharmacy - Research Statistics at a Glance

April 01, 2016 - March 31, 2017

Major Research Projects		Total
Completed Major Research Projects	Projects Completed	01
Funded by the External Funding	Total Grant	₹ 24,74,680/=
Agencies		
Ongoing Major Ongoing Research	Projects Ongoing	04
Projects Funded by the External	Total Grant	₹ 1,61,56,800/=
Funding Agencies		
Sanctioned Major Research Projects	Projects Sanctioned	04
Funded by the External Funding	Total Grant	₹ 97,44,780/=
Agencies		
Sanctioned Major Research Projects	Projects Sanctioned	01
Funded by Nirma University	Total Grant	₹ 28,92,400/=
<u>-</u>		
Minor Research Projects		
Completed Minor Research Projects	Projects Completed	08
Funded by the External Funding	Total Grant	₹ 31,55,000/=
Agencies		, ,
Ongoing Minor Research Projects	Projects Ongoing	10
Funded by the External Funding	Total Grant	₹ 44,17,000/=
Agencies		
Completed Minor Research Projects	Projects Completed	04
Funded by Nirma University	Total Grant	₹ 4,50,000/=
Ongoing Minor Research Projects	Projects Ongoing	04
Funded by Nirma University	Total Grant	₹ 2,90,000/=
Sanctioned Minor Research Projects	Projects Sanctioned	03
Funded by Nirma University	Total Grant	₹ 2,75,400/=
Research Publications		
Research Publications in UGC, Scor	ous and Web of Science Listed	70
Journals during 2016		
Research Publications in Other UGC I	Listed Journals during 2016	03
Books Published		01
Patents		
Patents Filed		01
Doctoral Research		
Ph.D. Degree Awarded		08
Total Ph.D. Students from Pharmacy I	103	
Total Ph.D. Guides from Pharmacy Di		22
,	•	



Research Awards	
Research Awards Received by the Faculty Members	03
Research Awards Received by the Students	07
Faculty Members who Received Financial Support from External	02
Funding Agencies and Nirma University for Attending International	
Conference	
Conferences / Seminars	
International / National Conferences Organized by the Institute	01
Seminars / Workshops / Refresher Courses Organized by the Institute	03



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.	Isolation of bioactive	Dr. Snehal Patel	Department of	24,74,680/=			
	compound from fruit juice of		Science and				
	Emblica officinalis and		Technology				
	investigation into the						
	molecular mechanism of						
	action.						
Total	Grant	Total Grant					

Ongoing Major Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Exploring the effect of	Dr. Bhoomika	Science &	27,00,000/=
	histone deacetylases	Patel	Engineering	
	(HDAC) in cancer-cachexia		Research	
	and their downstream targets		Board	
2.	Glutathione Appended	Dr. Niyati	Department of	45,56,800/=
	Polymer Nano constructs of	Acharya	Biotechnology	
	Asiatic acid for efficacious			
	Neuro protective agents			
3.	FIST Grant to Institute of		Department of	55,00,000/=
	Pharmacy, Nirma University		Science and	
			Technology	
4.	Liquid Phase combinatorial	Dr. Manjunath	Department of	34,00,000/=
	synthesis of benzimidazole	Ghate	Science and	
	library for antitubercular		Technology	
	activity			
Total	Grant			₹1,61,56,800/=

Sanctioned Major Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project		Project	Funding	5	Grant	
No.				Investigator/s	Agency		(in ₹)
1.	Evaluation	of	radio	Dr. Priti Mehta	Ministry	of	42,12,250/=
	protective	potential	of		Ayush,		



	medicinally important Indian bamboo plants in cancer		Government of India	
2.	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	Dr. Priti Mehta	Space Applications Centre, ISRO	15,90,000/=
3.	Evaluation of DNA	Dr. Jigna Shah	Gujarat State	20,81,920/=
	Polymerase Inhibitors for Treatment of Alzheimer's		Biotechnology Mission	
	Disease Alzhemer's		1411221011	
4.	Epidemiology of anemia in	Dr. Shital Panchal	Indian	18,60,610/=
	pre-school tribal children of		Council of	
	eastern Gujarat with		Medical	
	reference to etiology,		Research	
	pathophysiology and			
	nutritional impact			
Total	Grant			₹ 97,44,780/=

Sanctioned Major Research Project Funded by Nirma University

Sr.	Title of the Project	Project	Grant		
No.		Investigator/s	(in ₹)		
1.	Formulation development and evaluation	Dr. Mayur Patel	28,92,400/=		
	of Nanoparticulate systems for targeted				
	delivery of anticancer agents				
Total (Total Grant				

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.		Dr. Snehal Patel	Research	1,95,000/=
	Prevalence of Pre-diabetic		Society for the	
	Status in Gujarati Population		Study of	
	and Evaluation of its		Diabetes in	
	Association with Various		India	
	Risk Factors			



2.	*	Dr. Shital Butani	Gujarat	3,60,000/=
	emulsifying Drug Delivery		Council on	
	Systems for Poorly Soluble		Science and	
	Antihypertensive Drug		Technology	
3.	Isolation and	Dr. Charmy Kothari	Gujarat	5,00,000/=
	Characterization of Marker		Council on	
	from Polyherbal		Science and	
	Formulation		Technology	
4.	Investigation into the	Dr. Snehal Patel	Gujarat	3,50,000/=
	Prevalence of Pre-diabetic		Council on	- , ,
	Status in School Going		Science and	
	Children in Gujarati		Technology	
	Population and Evaluation of		reciniology	
	its Association with Various			
	Risk Factors.	Du L'ange C	Cuionat	2.50.000/
5.	Computer aided Drug	Dr. Jignasa Savjani	Gujarat	3,50,000/=
	Design and Pharmacological		Council on	
	Evaluation of		Science and	
	Cyclooxygenase-2 (COX-2)		Technology	
	Inhibitors: An Efficient			
	Conversion of Non-steroidal			
	Anti-inflammatory Drugs to			
	Potent and Highly Selective			
	COX-2 Inhibitors			
6.	Development and	Dr. Vimal Kumar	Gujarat	5,00,000/=
	Optimization of		Council on	
	Formulations Containing		Science and	
	Glycin max (Soyabean),		Technology	
	Moringa Oleifera and			
	Phoenix Dactylifera for the			
	Treatment of Malnutrition			
7.	Investigating the Role of	Dr. Mavur M. Patel	Gujarat	4,00,000/=
,.	Histone Deacetylase	21. 1.10, 61 1.1. 1 4101	Council on	.,55,555,
	(HDAC) Inhibitors in		Science and	
	Diabetes and Colon Cancer,		Technology	
	and Development of Site		Technology	
	Specific Drug Delivery			
0	Systems In cilian designing	Drof Marinast	Guioret	5.00.000/
8.	In-silico designing,	Prof. Manjunath	Gujarat	5,00,000/=
	Synthesis and	Ghate	Council on	
	Pharmacological Screening		Science and	
	of Dipeptidyl Peptidase-4		Technology	
	(DPP-4) Inhibitors as Novel			
	Antidiabetic Agents			
Total	~ .			₹ 31,55,000/=



Ongoing Minor Research Projects Funded by the External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Screening &	Dr. Priti Mehta	Gujarat	3,00,000/=
	Characterization of Anti-		Council on	
	cancer Bioactive Principle		Science and	
	from the Indigenous Plants of		Technology	
	Dang Forest, Gujarat			
2.	Effect of Polyphenols	Dr. Shital Panchal	Gujarat	5,35,000/=
	Containing plant Extracts in		Council on	
	the Treatment and		Science and	
	Prevention of age Related		Technology	
	Neuro-Degenerative			
	Disorders	D 11 111 D1	G .	2 70 0001
3.	Design and Synthesis of	Dr. Hardik Bhatt	Gujarat	2,70,000/=
	novel Pteridine Derivatives		Council on	
	as Auora Kinase Inhibitors		Science and	
4	for the Treatment of Cancer	D., Cl 1.11	Technology	2.00.000/
4.	Investigation of the Role of	Dr. Shraddha	Gujarat	3,90,000/=
	Tephrosia Purpurea in the Cardiovascular	Bhadada	Council on Science and	
5.	Complications in Rats Evaluation of	Dr. Bhoomika	Technology	2,80,000/=
3.	Chemoprotective Potential of	Patel	Gujarat Council on	2,80,000/=
	active Constituent of L.	1 ater	Science and	
	Usitatissimum in Colon		Technology	
	Cancer Associated with		recimology	
	Diabetes Mellitus			
6.	Investigation into	Dr. Niyati	Gujarat	3,22,000/=
0.	neuroprotective effects of	Acharya	Council on	2,22,000/
	Bergenia ciliate roots in		Science and	
	Alzheimer's disease with		Technology	
	special reference to bergenin		0,7	
7.	Ocular iontophoretic	Dr. Jigar Shah	Gujarat	7,00,000/=
	delivery of nanoparticles via		Council on	, ,
	transscleral route for		Science and	
	posterior disease		Technology	
8.	Development and	Dr. Renuka	Gujarat	4,85,000/=
	Optimization of	Mishra	Council on	
	mucoadhesive film for		Science and	
	treatment of vaginal		Technology	
	candidiasis			
9.	Investigation of Mechanism	Dr. Jigna Shah	Gujarat	4,80,000/=
	of Action of Selected Herbal		Council on	
	Drugs for the Treatment of			



	Attention deficit		Science and				
	Hyperactivity Disorder		Technology				
	(ADHD)						
10.	Design and Synthesis of	Dr. Vivek Vyas	Gujarat	6,55,000/=			
	quinoline Derivatives as		Council on				
	novel Apoptosis Inducers		Science and				
			Technology				
Total	Total Grant						

Completed Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project	Grant
No.		Investigator/s	(in ₹)
1.	Studies on Exploring Novel Excipients for	Dr. Dhaivat C.	1,80,000/=
	Drug Delivery in Oral Cavity	Parikh	
	(Colloborative project with Chemical		
	Engineering, ITNU)		
2.	Formulation, Design and Development of	Dr. Renuka	90,000/=
	Sublingual film of an Anti-hypertensive	Mishra	
	drug		
3.	Standardization and Evaluation of a	Ms. Nagja	80,000/=
	Polyherbal Formulation for Metabolic	Tripathi	
	Disorder	_	
4.	Development of Oryzanol Formulation	Dr. Shital Panchal	1,00,000/=
	and its Pharmacological Evaluation for		
	Neurodegenerative disorders		
Total (Grant		₹ 4,50,000/=

Ongoing Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project	Grant
No.		Investigator/s	(in ₹)
1.	Evaluation of Anti-hypertensive agent in	Dr. Bhoomika	55,000/=
	Cancer Cachexia Induced Cardiotoxicity	Patel	
2.	Pharmacological Evaluation of	Dr. Niyati	80,000/=
	Antiurolithiatic Activity of Roots of	Acharya	
	Grewia Flavescens		
3.	Beneficial effect of Pimpinella Anisum in	Dr. Shraddha	65,000/=
	Delaying cataract	Bhadada	
4.	In-Silico Designing, Synthesis and	Ms. Palak Parikh	90,000/=
	Pharmacological Evaluation of Novel anti		
	Cancer Agents		
Total G	rant		₹ 2,90,000/=



Sanctioned Minor Research Projects Funded by Nirma University

Sr.	Title of the Project	Project	Grant
No.		Investigator/s	(in ₹)
1.	Solubility Enhancement of BCS class II	Dr. Mohit Shah	90,000/=
	drug using Emulsifying Drug Delivery		
	System		
2.	Synthesis of co-crystal of Acyclovir for	Dr. Jignasa	85,000/=
	Improvement of Physicochemical	Savjani	
	Parameters	_	
3.	Solubility Enhancement of Lead	Mr. Nrupesh Patel	1,00,000/=
	Candidates as Anti-diabetic agents	Dr. Bhumika Patel	
Total G	rant		₹ 2,75,000/=

Research Publications

Research Publications in UGC, Scopus and Web of Science Listed Journals during 2016

- 1. Savjani, Ketan, Anuradha Gajjar, and Jignasa Savjani. "Modified Formulation of Febuxostat: Improved Efficacy and Safety" International Journal of Pharmacy and Pharmaceutical Sciences 8.1 (2016): 359–366.
- 2. Savjani, Jignasa Ketan, and Chirag Pathak. "Improvement of Physicochemical Parameters of Acyclovir Using Cocrystallization Approach" Brazilian Journal of Pharmaceutical Sciences 52.4 (2016): 727–734.
- 3. Shah, Surmil, and Jignasa Savjani. "A Review on ROCK-II Inhibitors: From Molecular Modelling to Synthesis" Bioorganic and Medicinal Chemistry Letters 2016: 2383–2391.
- 4. Suthar, V.C., and S.B. Butani. "Preparation and Evaluation of Self-Micro Emulsifying Drug Delivery Systems of Lercanidipine HCL Using Medium and Short Chain Glycerides: A Comparative Study." Asian Journal of Pharmaceutics 10.04 (2016). 256-264.
- 5. Suthar, Vrunda, Shital Butani, and Mukesh Gohel. "Solid Self-Emulsified Nanostructures of Lercanidipine Hydrochloride: A Potential Approach to Improve the Fraction of the Dose Absorbed." Journal of Drug Delivery Science and Technology 31 (2016): 11–21.
- 6. Patel, Snehal S., Niti Rajshree, and Praboth V. Shah. "Evaluation of Antidepressant Activity of Herbomineral Formulation" International Journal of Pharmacy and Pharmaceutical Sciences 8.4 (2016): 145–147.
- 7. Bakrania, Anita K., Bhavesh C. Variya, and Snehal S. Patel. "Novel Targets for Paclitaxel Nano Formulations: Hopes and Hypes in Triple Negative Breast Cancer" Pharmacological Research (2016): 577–591.
- 8. Variya, Bhavesh C., Anita K. Bakrania, and Snehal S. Patel. "Emblica Officinalis (Amla): A Review for Its Phytochemistry, Ethnomedicinal Uses and Medicinal Potentials with Respect to Molecular Mechanisms" Pharmacological Research (2016): 180–200.
- 9. Chaube, Udit J., Vivek K. Vyas, and Hardik G. Bhatt. "Design and Synthesis of Potent N-Phenylpyrimidine Derivatives for the Treatment of Skin Cancer." RSC Adv. 6.13 (2016): 10285–10297.



- 10. Kumar, Amal, and Bhaswat S Chakraborty. "Interim Analysis: A Rational Approach of Decision Making in Clinical Trial." Journal of advanced pharmaceutical technology & research 7.4 (2016): 118–122.
- 11. Nagja, Tripathi, Kumar Vimal, and Acharya Sanjeev. "Myristica Fragrans: A Comprehensive Review." International Journal of Pharmacy and Pharmaceutical Sciences 8.2 (2016): 27–30.
- 12. Kumar, Amal, and Bhaswat S Chakraborty. "Application of Critical Path Analysis in Clinical Trials." Journal of Advanced Pharmaceutical Technology & Research 7.1 (2016): 17–21.
- 13. Acharya, Niyati S., and Jagruti J. Patel. "Phytochemical Evaluation and in Vitro Antioxidant and Anti-Inflammatory Effects of Clerodendrum Serratum Roots." International Journal of Pharmacy and Pharmaceutical Sciences 8.8 (2016): 158–163.
- 14. Acharya, Niyati et al. "A Comprehensive Analysis on Symplocos Racemosa Roxb.: Traditional Uses, Botany, Phytochemistry and Pharmacological Activities." Journal of Ethnopharmacology (2016): 236–251.
- 15. Shah, Niyati R., and Bhoomika M. Patel. "Secoisolariciresinol Diglucoside Rich Extract of L. Usitatissimum Prevents Diabetic Colon Cancer through Inhibition of CDK4." Biomedicine and Pharmacotherapy 83 (2016): 733–739.
- 16. Shah, Jigna, and Bhavya Baxi. "Identification of Biomarkers for Prediction of Preterm Delivery." JMS Journal of Medical Society (2016): 3–14.
- 17. Rawal, Tejal, and Shital Butani. "Combating Tuberculosis Infection: A Forbidding Challenge." Indian Journal of Pharmaceutical Sciences 78.1 (2016): 8.
- 18. Butani, S. et al. "Development Ofrizatriptan Benzoate Microspheres for Nose to Brain Targeting." International Journal of Applied Pharmaceutics 8.4 (2016): 69-74.
- 19. Thakare, Vishnu N., Valmik D. Dhakane, and Bhoomika M. Patel. "Potential Antidepressant-like Activity of Silymarin in the Acute Restraint Stress in Mice: Modulation of Corticosterone and Oxidative Stress Response in Cerebral Cortex and Hippocampus." Pharmacological Reports 68.5 (2016): 1020–1027.
- 20. Parikh, N.H., and C.S. Kothari. "Phytochemical Analysis and Total Phenolic and Flavonoid Contents Determination of Methanolic Extract of Ocimum Basilicum L Seed." International Journal of PharmTech Research 9.4 (2016): 215–219
- 21. Parikh, N H, and C S Kothari. "Development and Validation of a High-Performance Thin-Layer Chromatographic-Densitometric Method for the Quantification of Apigenin in Ocimum Basilicum L. Seed (Takhmaria)." Journal of Planar Chromatography Modern TLC 29.3 (2016): 469–473.
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- 23. Shelat, D.Y., and S.R. Acharya. "Neuroprotective Activity of Novel CUR-CA-THIONE and Its Oxidative Stress Study." International Journal of Pharmacy and Pharmaceutical Sciences 8.12 (2016): 167-173
- 24. Bhangale, J.O., and S.R. Acharya. "Anti-Parkinson Activity of Petroleum Ether Extract of Ficus Religiosa (L.) Leaves." Advances in Pharmacological Sciences 2016 (2016).
- 25. Bhangale, J.O., N.S. Acharya, and S.R. Acharya. "Protective Effect of Ficus Religiosa (L.) against 3-Nitropropionic Acid Induced Huntington Disease." Oriental Pharmacy and Experimental Medicine 16.3 (2016):165–175



- 26. Shah, Nitesh et al. "Design of Experiment Approach for Formulating Multi-Unit Colon-Targeted Drug Delivery System: In Vitro and in Vivo Studies." Drug Development and Industrial Pharmacy 42.5 (2016): 825–835.
- 27. Nagja, T., K. Vimal, and A. Sanjeev. "Myristica Fragrans: A Comprehensive Review." International Journal of Pharmacy and Pharmaceutical Sciences 8.2 (2016): 27–30.
- 28. Nagja, T., K. Vimal, and A. Sanjeev. "Anti-Diabetic Activity of a Polyherbal Formulation in Streptozotocin Induced Type 2 Diabetic Rats." Journal of Natural Remedies 16.4 (2016): 148–152.
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- 30. Kala, Manika, Muhammad Vaseem Shaikh, and Manish Nivsarkar. "Development and Optimization of Psychological Stress Model in Mice Using 2 Level Full Factorial Design." Journal of Pharmacological and Toxicological Methods 82 (2016): 54–61.
- 31. Kala, Manika, and Manish Nivsarkar. "Role of Cortisol and Superoxide Dismutase in Psychological Stress Induced Anovulation." General and Comparative Endocrinology 225 (2016): 117–124.
- 32. Shaikh, Muhammad Vaseem, Manika Kala, and Manish Nivsarkar. "CD90 a Potential Cancer Stem Cell Marker and a Therapeutic Target." Cancer Biomarkers 2016: 301–307.
- 33. Bhadada, Shraddha V, Vikas J Bhadada, and Ramesh K Goyal. "Preventive Effect of Tephrosia Purpurea on Selenite-Induced Experimental Cataract." Current eye research 41.2 (2016): 222–231.
- 34. Bhadada, S.V., and R.K. Goyal. "Effect of Flavonoid Rich Fraction of Tephrosia Purpurea (Linn.) Pers. on Complications Associated with Streptozotocin-Induced Type I Diabetes Mellitus." Indian Journal of Experimental Biology 54.7 (2016).
- 35. Bhadada, Shraddha V., Vivek K. Vyas, and Ramesh K. Goyal. "Protective Effect of Tephrosia Purpurea in Diabetic Cataract through Aldose Reductase Inhibitory Activity." Biomedicine and Pharmacotherapy 83 (2016): 221–228.
- 36. Patel, Saloni, Bhumika Patel, and Hardik Bhatt. "3D-QSAR Studies on 5-Hydroxy-6-Oxo-1,6-Dihydropyrimidine-4- Carboxamide Derivatives as HIV-Integrase Inhibitors." Journal of the Taiwan Institute of Chemical Engineers 59 (2016): 61–68.
- 37. Patel, Saloni B. et al. "Design, Synthesis and Anti-HIV Activity of Novel Quinoxaline Derivatives." European Journal of Medicinal Chemistry 117 (2016): 230–240.
- 38. Patel, N., K. Pandya, and A. Gajjar. "An Overview of Different Analytical Techniques for Leukotriene Antagonists in Different Matrices." Current Pharmaceutical Analysis 12.4 (2016): 275-295.
- 39. C Variya, Bhavesh, et al. "Pharmacological Evaluation of Jambrushila Tablet on Animal Model of Type-2 Diabetes." The Natural Products Journal 6.1 (2016): 33-39.
- 40. Bakrania, A.K., B.C. Variya, and S.S. Patel. "DMBA-Induced Breast Cancer: A Hormonal Camouflage." Current Cancer Therapy Reviews 12.4 (2016):33-39.
- 41. Singh, D. P., S. P. Borse, and M. Nivsarkar. "Clinical Importance of Nonsteroidal Anti-Inflammatory Drug Enteropathy: The Relevance of Tumor Necrosis Factor as a Promising Target." Translational Research 175 (2016): 76-91.
- 42. Singh, Devendra Pratap, Swapnil P. Borse, and Manish Nivsarkar. "A Novel Model for NSAID Induced Gastroenteropathy in Rats." Journal of Pharmacological and Toxicological Methods 78 (2016): 66–75.



- 43. Patel, Mital N., and Charmy S. Kothari. "Multivariate Approaches for Simultaneous Determination of Avanafil and Dapoxetine by UV Chemometrics and HPLC-QbD in Binary Mixtures and Pharmaceutical Product." Journal of AOAC International 99.3 (2016): 649–663.
- 44. Nalawade, Pravin B., and Anuradha K. Gajjar. "Microencapsulation of Lutein Extracted from Marigold Flowers (Tagetes Erecta L.) Using Full Factorial Design." Journal of Drug Delivery Science and Technology 33 (2016): 75–87.
- 45. Patel, Mayur M., and Zeal M. Vora. "Formulation Development and Optimization of Transungual Drug Delivery System of Terbinafine Hydrochloride for the Treatment of Onychomycosis." Drug Delivery and Translational Research 6.3 (2016): 263–275.
- 46. Acharya, Sanjeev R., and Padmanabha R.V. Reddy. "Brain Targeted Delivery of Paclitaxel Using Endogenous Ligand" Asian Journal of Pharmaceutical Sciences 11.3 (2016): 427–438.
- 47. Vyas, V K et al. "Identification of Novel PfDHODH Inhibitors as Antimalarial Agents via Pharmacophore-Based Virtual Screening Followed by Molecular Docking and in Vivo Antimalarial Activity" SAR and QSAR in environmental research 27.6 (2016): 427–440.
- 48. Omkar, S.D., C. Komal, and M.J. Priti. "Identification and Structural Characterization of Major Degradation Products of Tapentadol by Using Liquid Chromatography–tandem Mass Spectrometry." Journal of Liquid Chromatography and Related Technologies 39.12 (2016): 558-567.
- 49. Sharma, Om Prakash, Viral Patel, and Tejal Mehta. "Nanocrystal for Ocular Drug Delivery: Hope or Hype" Drug Delivery and Translational Research 2016: 399–413.
- 50. Sharma, Om Prakash, Viral Patel, and Tejal Mehta. "Design of Experiment Approach in Development of Febuxostat Nanocrystal: Application of Soluplus as Stabilizer." Powder Technology 302 (2016): 396–405.
- 51. Parth, S. et al. "Acne Vulgaris: An Update on Current Therapy and Advances in Treatment Strategies." International Journal of Pharmaceutical Sciences Review and Research 40(1) (2016): 234-244
- 52. Panchal, Shital S., Anita A. Mehta, and Devdas D. Santani. "Effect of Potassium Channel Openers in Acute and Chronic Models of Glaucoma." Taiwan Journal of Ophthalmology 6.3 (2016): 131–135.
- 53. Jivrajani, Mehul, and Manish Nivsarkar. "Ligand-Targeted Bacterial Minicells: Futuristic Nano-Sized Drug Delivery System for the Efficient and Cost Effective Delivery of shRNA to Cancer Cells." Nanomedicine: Nanotechnology, Biology, and Medicine 12.8 (2016): 2485–2498.
- 54. Patel, N., T. Dadhaniya, and A. Gajjar. "Supercritical Fluid Chromatographic Method for Montelukast: Application in Content Uniformity and Degradation Study." Current Analytical Chemistry 12.6 (2016): 529-536.
- 55. Prajapati, B. et al. "Preparation and Optimization of Moxifloxacin Microspheres for Colon Targeted Delivery Using Quality by Design Approach: In Vitro and In Vivo Study." Current Drug Delivery 13.7 (2016): 1021–1033.
- 56. Srivastava, Pavan et al. "Synthesis, Anti-Inflammatory, Analgesic, 5-Lipoxygenase (5-LOX) Inhibition Activities, and Molecular Docking Study of 7-Substituted Coumarin Derivatives." Bioorganic Chemistry 67 (2016): 130–138.



- 57. Ingawale, D. K., and S. S. Patel. "Anti-In??ammatory Potential of Hecogenin in Experimental Animals: Possible Involvement of Inflammatory Cytokines and Myeloperoxidase." Drug Research 66.12 (2016): 644–656.
- 58. Sharma, S., and N. Shrivastava. "Internal Transcribed Spacer Guided Multiplex PCR for Species Identification of Convolvulus Prostratus and Evolvulus Alsinoides." Acta Pharmaceutica Sinica B 6.3 (2016): 253–658.
- 59. Trivedi, J. et al. "Spectrofluorimetric Method for Estimation of Curcumin in Rat Blood Plasma: Development and Validation." Journal of Applied Spectroscopy 82.6 (2016): 980–984.
- 60. Abiramasundari, A. et al. "Impact of Ternary Solvent System in Stability-Indicating Assay Method of Bambuterol: Design of Experiments Approach." Journal of Chromatographic Science 54.2 (2016): 221–229.
- 61. Pawar, N.D. et al. "Crocin Rich Extract of Nyctanthes Arbortristis Flower Calyx Induces Anti-Angiogenic Activity." Natural Products Journal 6.1 (2016): 40–48.
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- 63. Khan, M. Y., S. A. Ali, and K. Pundarikakshudu. "Wound Healing Activity of Extracts Derived from Shorea Robusta Resin." Pharmaceutical Biology 54.3 (2016): 542–548.
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- 66. Bhadoriya, Kamlendra Singh et al. "Exploring 2D and 3D QSARs of Benzimidazole Derivatives as Transient Receptor Potential Melastatin 8 (TRPM8) Antagonists Using MLR and kNN-MFA Methodology." Journal of Saudi Chemical Society 20 (2016): S256–S270.
- 67. Patel, S. S. "Cerebrovascular Complications of Diabetes: alpha glucosidase inhibitor as potential therapy." Hormone and Metabolic Research 48.02 (2016): 83-91..
- 68. Patel, Mayur M. "Micro/nano-particulate drug delivery systems: a boon for the Treatment of Inflammatory Bowel Disease." (2016): 771-775.
- 69. Sukumaran, Shreesha, Hetal J. Patel, and Bhoomika M. Patel. "Evaluation of role of telmisartan in combination with 5-fluorouracil in gastric cancer cachexia." Life sciences 154 (2016): 15-23.

Research Publications in Other UGC Listed Journals during 2016

- 1. Khan, Mohammad Yaseen. "Phytopharmacological and Chemical Profile of Bergenia ciliata." International Journal of Phytopharmacy 6.5 (2016): 90-98
- 2. Shah, Nimish, Rajubhai K. Mewada, and Tejal Mehta. "Crosslinking of starch and its effect on viscosity behaviour." Reviews in Chemical Engineering 32.2 (2016): 265-270.
- 3. Mishra, Renuka, Priyanka Joshi, and Tejal Mehta. "Formulation, development and characterization of mucoadhesive film for treatment of vaginal candidiasis." International journal of pharmaceutical investigation 6.1 (2016): 47.



Book Published

Sr. No.	Name o		Na	ame of	the Boo	ok		Name ublis Hou	hing	ISBN	Year of Publication
1.	Dr. N	Mayur	A	Text	Book	of	B.	S.	Shah	81-	2016
	Patel		Hos	spital P	harmacy	ey Prakashan,		8416-			
							Ahn	nedab	oad	008-9	

Patent Filed

Sr. No.	Name of the Inventors	Title of the Patent	Year	Status
1.	Dr. Mayur Patel	A Formulation Comprising Chitosan-	2016	Filed
	and	Ethylcellulose Microspheres For		
	Dr. Bhoomika Patel	Treatment of Inflamatory Bowel Disease		

Ph.D. Awarded

Sr.	Name of the Student	Name of the Guide	Title of Thesis
No.			
1.	Somnath Chandrakant	Dr. Bhaswat	In Vitro And In Vivo
	Sakore	Chakraborty	Correlation (IVIVC) of
			Formulation Characteristics
			and Pharmacokinetics of
			Antihypertensive Drugs
2.	Sharwan Kumar	Dr. Bhaswat	Toxic Signal Detection in
	Singhal	Chakraborty	Pharmacovigilance of
			Anticancer Drugs in Cancer
			Treatment
3.	Patel Amit Ambalal	Dr. Tejal Mehta	Formulation Development &
			Optimization of Effervescent
			Systems for Histamine
			Antagonists
4.	Shah Unnati	Dr. Niyati S. Acharya	Phytopharmacological
	Ripalkumar		Investigations of Bioactives
			From Symplocos racemosa
			Bark With Specific Reference
	***************************************	5 5 1111	to Anticancer Activity
5.	Kinjal Rahul Shah	Dr. Tejal Mehta	Development and evaluation
			of Taste masked Immediate
			Release Dosage forms of
			Lornoxicam
6.	Hiral Dineshbhai	Dr. Shital Butani	Studies in oxcarbazepine
	Koradia		modified release formulations



			using Quality by Design	
			approach	
7.	Dadhaniya Tejaskumar	Dr. Priti Mehta	Development and Analysis of	
	Madhavji		Long Acting Depot	
			Formulation for	
			Pharmaceutical Use	
8.	Patel Bhumika Dipen	Dr. Manjunath Ghate	Rational Designing, Synthesis	
			and Biological Evaluation of	
			Novel Antidiabetic Agents	
			_	

Research Awards

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty	Recognition / Honor / Award	Reason for Recognition /	Name of the organization
	Member		Honor / Award	
1.	Dr. Jigar Shah	Best Presentation	Best Presentation	18 th International
		Award	Award	Conference on
				Pharmacology and
				Pharmaceutical
				Medicine 2016 at
				Vancouver, Canada
2.	Dr. Dhaivat	Best Paper	Best Paper	6 th Indo-Japanese
	Parikh	Award	Award	International
				Symposium, Goa
3.	Dr. Bhoomika	Best Poster	Best Poster	Society for
	M. Patel	Award	Award	Pharmacoeconomics
				and Outcomes Research
				and Delhi
				Pharmaceutical Sciences
				& Research University

Travel Grant Received by the Faculty Members / Students

• Dr. Jigar Shah, Assistant Professor, Institute of Pharmacy received travel grant of ₹ 1,00,000/- from Indian Council ofMedical Research (ICMR), New Delhi and ₹ 25,000/- from Nirma University to attend 18th International Conference on Pharmacology and Pharmaceutical Medicine (ICPPM 2016) at Canada. During the conference, he presented a paper titled, "Combined effect of vesicular system and iontophoresis on skin permeation enhancement of an analgesic drug".



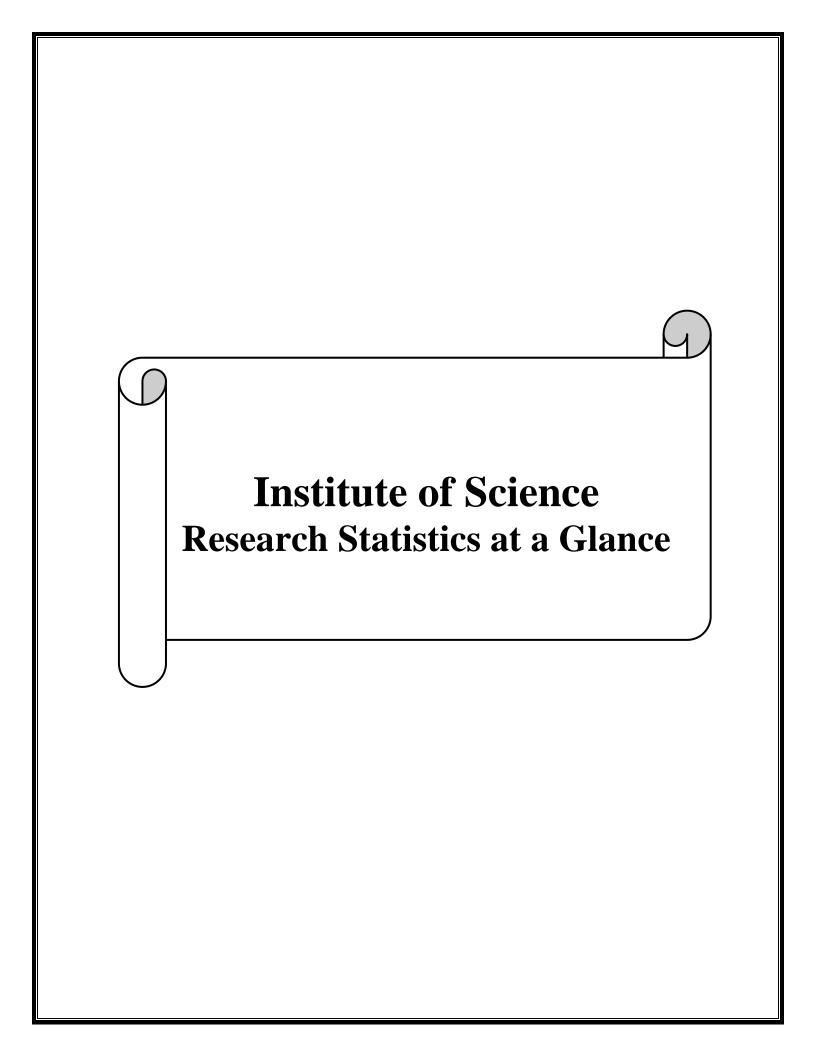
Conferences / Seminars / Workshops

National Conference Organized by the Institute

The 2nd National Conference of Institute of Pharmacy (NCIP 2017) was organized by Institute of Pharmacy, Nirma University on the theme of "Emerging Trends in Drug Discovery, Development and Molecular Targets for Cancer Research" during January 24-25, 2017. The conference was inaugurated by Chief Guest, Dr. Shilin Shukla, Professor Emeritus and Former Director, Gujarat Cancer Research Institute and Guest of Honor Dr. Harish Padh, Former Vice Chancellor, Sardar Patel University and renowned researcher in the field of Cancer and Genetics. In his inaugural address, Dr. Shilin Shukla encouraged the young researchers and students to take up research in field of Oncology. Dr. Harish Padh stressed on interdisciplinary research as a tool for the fruitful research in the field of cancer. He also emphasized on early detection of cancer for successful treatment of cancer and to prevent mortality due to cancer. More than 300 researchers, students and faculties participated in the conference. The conference included various plenary sessions by eminent speakers from industry, academics & research organizations. The conference also provided an opportunity to scientists and research scholars from various organizations to put forth their innovative ideas and research findings by means of session lectures and more than 130 poster presentations in various thrust areas of cancer.

Seminars Organized by the Institute

- Department of Pharmacognos organized a national seminar on "Herbal Cosmetics: Recent Advances, Regulations and Market Trends" on March 04, 2016 under the Centre for Continuing Education, Nirma University.
- Department of Pharmaceutical Chemistry organized a national seminar on "Recent Advances in Drug Discovery 2016" on March 28, 2016.





Institute of Science - Research Statistics at a Glance

April 01, 2016 - March 31, 2017

Major Research Projects	Total	
Completed Major Research Projects	Projects Completed	04
Funded by the External Funding	Total Grant	₹ 91,89,160/=
Agencies		
Ongoing Major Ongoing Research	Projects Ongoing	06
Projects Funded by the External	Total Grant	₹ 2,02,83,000/=
Funding Agencies		
Sanctioned Major Research Projects	Projects Sanctioned	05
Funded by the External Funding	Total Grant	₹ 1,25,08,000/=
Agencies	Total Grant	(1,23,00,000/=
151 2 12 1		
Minor Research Projects		0.2
Ongoing Minor Research Projects	Projects Ongoing	03
Funded by the External Funding	Total Grant	₹ 11,45,000/=
Agencies		0.1
Sanctioned Minor Research Projects	Projects Sanctioned	01
Funded by the External Funding	Total Grant	₹ 1,00,000/=
Agencies		
Research Publications		
Research Publications in UGC, Scor	ous and Web of Science Listed	22
Journals		
Research Publications in Other UGC I	Listed Journals	10
Book Chapters Published		01
Doctoral Research		
Ph.D. Degree Awarded		09
Total Ph.D. Students from Science Dis	scipline	59
Total Ph.D. Guides from Science Disc		73
Research Awards		
Research Awards Received by the Fac	02	
Faculty Members who Received Fi	02	
Funding Agencies and Nirma Univer		
Conference		
Conferences / Seminars		
National Conferences Organized by th		01
Seminars / Workshops / Refresher Cou	arses Organized by the Institute	01



Research Projects

Major Research Projects

Completed Major Research Projects Funded by External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Understanding the Nature of	Dr. Sarat K Dalai	Department of	42,89,000/=
	Liver-Stage Specific CD8+T		Biotechnology	
	Cells Generated following			
	Infectious Sporozite			
	Challenge that Ensue			
	Long—Lived Protection			
	against Plasmodia Infection			
2.	Biochemical Basis of	Dr. Shalini	Gujarat State	13,30,160/=
	Repression of MPS	Rajkumar	Biotechnology	
	Phenotype in Rhizobia		Mission	
3.	Identification of CD8+T Cell			19,75,000/=
	– Specific to Liver-Stage			
	Antigens of <i>Plasmodium</i>	D C (KD1)	Gujarat State	
	Berghei to Understand Anti-	Dr. Sarat K Dalai	Biotechnology	
	Malarial Protective		Mission	
	Immunity			
4.	Generation of Thermostable	Dr. Mili Das	Gujarat State	15,95,000/=
	Variants of a Mesophilic		Biotechnology	, ,
	Amylase by Directed		Mission	
	Evolution and their			
	Characterization			
Total	₹ 91,89,160/=			
I oui	• 71,07,100/—			

Ongoing Major Research Projects Funded by External Funding Agencies

	Title of the Project	Project	Funding	Grant
Sr.		Investigator/s	Agency	(in ₹)
No.				
1.	Infectious Nature of Plasmodia	Dr. Sarat K	Department of	52,10,000/=
	Modulating the Innate Response	Dalai	Science and	
	of Host in Liver Stage Infection		Technology	
	Deciding the Fate of Adaptive			
	Immunity			
2.	Development of Chimeric IL-15	Dr. Sarat K	Department of	34,18,000/=
	to Improve its Bioavailability	Dalai	Biotechnology	
	and Efficacy			
3.	Molecular Basis of Succinate	Dr. Shalini	Science and	28,88,000/=
	Mediated (Catabolite)	Rajkumar	Engineering	
	Repression of Mineral			



	Phosphate Solubilization in		Research	
	Nitrogen Fixing Klebsiella		Board	
	Pneumoniae			
4.	Role of Synaptogenic Adhesion	Dr. Amee K.	Department of	29,40,000/=
	Molecules (SAMs) in Insulin	Nair	Science and	
	Secretion: Effect of Diabetes		Technology	
	and Hypoglycemia			
5.	'Humanized Liver' to Study	Dr. Rajeev	Department of	43,00,000/=
	Liver Stage Infection of	Tyagi	Science and	
	Plasmodium Falciparum		Technology	
6.	Idiopathic Mental Retardation	Dr. Sonal R.	Gujarat State	15,27,000/=
	and Dysmorphisms: Karyotypic	Bakshi	Biotechnology	
	and UPD Analysis		Mission	
Total Grant				₹2,02,83,000/=

Sanctioned Major Research Projects Funded by External Funding Agencies

Sr.	Title of the Project	Project	Funding Agency	Grant
No.		Investigator/s		(in ₹)
1.	Determination of Specific	Dr. Nasreen	ISRO	16,00,000/=
	Absorption Coefficient for	Munshi		
	the Dominant Macro Algal			
	Species of Indian Coastal			
	Water- A Step Towards			
	Developing Bio Markers and Pigments Algorithm			
2.	Development of	Dr. Sonal	Ministry of	42,12,000/=
	Neoadjuvant from	Bakshi	AYUSH	
	Medicinally Important			
	Bamboo Plants for			
	Radiotherapy in Cancer			
3.	Elucidating the Role of		Gujarat State	22,51,000/=
	Short Chain Fatty Acids	Seshadri	Biotechnology	
	(Scfas) and its Receptors in		Mission	
	High Sugar Diet Induced			
4	Type II Diabetes	D 0.	D 4 6	0.25.000/
4.	Investigation of the	Dr. Sriram	Department of Science and	9,35,000/=
	regulatory role of miR-712 in inflammation induced	Seshadri		
	skeletal muscle insulin		Technology	
	resistance			
5.	Regulation of MHC II	Dr. Pranati Sar	Department of	35,10,000/=
J.	Expression: Immunity to	Di. I lanan Sai	Science and	33,10,000/-
	Malaria Malaria		Technology-	
	- Ivinimin		Science and	



Total	₹1,25,08,000/=	
	Research Board	
	Engineering	

Minor Research Projects

Ongoing Minor Research Projects Funded by External Funding Agencies

Sr. No.	Project Title	Project Investigator	Funding Agency	Grant (in ₹)
1.	Downs Syndrome In Gujarat: Molecular Probing In Origin	Dr. Sonal R. Bakshi	Gujarat Council on Science and Technology (GUJCOST)	6,00,000/=
2.	Investigation of the Molecular Basis of Enhanced Exopolysaccharide (EPS) Production by Xanthomonas Campestris under Influence of Audible Sound	Dr. Vijay Kothari	Gujarat Council on Science and Technology (GUJCOST)	3,99,000/=
3.	Demographic Survey of Major Cities of Gujarat for Creation of Diabetic Map	Dr. Amee K. Nair	Gujarat Council on Science and Technology (GUJCOST)	1,46,000/=
Total	₹11,45,000/=			

Sanctioned Minor Research Projects Funded by External Funding Agencies

Sr.	Title of the Project	Project	Funding	Grant
No.		Investigator/s	Agency	(in ₹)
1.	Validation of the in vitro and	Dr. Vijay Kothari	BIRAC	1,00,000/=
	in vivo efficacy oI Herboheal		SRISTI	
	against wound-infective		Appreciation	
	bacteria, with respect to its		Grant	
	possible quorum-modulatory			
	potential, and elucidation of			
	the underlining molecular			
	mechanism			
Total Grant				₹ 1,00,000/=



Research Publications

Research Papers in Scopus / Web of Science Listed Journals

- 1. Kunwar, F. et al. "Constitutional Mosaic Trisomy 13 in Two Germ Cell Layers Is Different from Patau Syndrome? A Case Report." Journal of Clinical and Diagnostic Research 10.3 (2016): GD03-GD05.
- 2. Kunwar, F. and Sonal R. Bakshi. "Familial Constitutional Rearrangement of Chromosomes 4 & 8: Phenotypically Normal Mother and Abnormal Progeny." Journal of Clinical and Diagnostic Research 10.4 (2016): GD1-GD4.
- 3. Tyagi, Rajeev K. et al. "Transdermal Immunization of P. Falciparum Surface Antigen (MSP-119) via Elastic Liposomes Confers Robust Immunogenicity." Human Vaccines and Immunotherapeutics 12.4 (2016): 990–992.
- 4. Patidar, M. et al. "Interleukin 15: A Key Cytokine for Immunotherapy." Cytokine and Growth Factor Reviews 2016: 49–59.
- 5. Sharma, Sonal, and Neeta Shrivastava. "Internal Transcribed Spacer Guided Multiplex PCR for Species Identification of Convolvulus Prostratus and Evolvulus Alsinoides." Acta Pharmaceutica Sinica B 6.3 (2016): 253–258.
- 6. Sharma, Sonal, and Neeta Shrivastava. "Renaissance in Phytomedicines: Promising Implications of NGS Technologies." Planta 2016: 19–38.
- 7. Patel, Suhani et al. "DNA Binding and Dispersion Activities of Titanium Dioxide Nanoparticles with UV/vis Spectrophotometry, Fluorescence Spectroscopy and Physicochemical Analysis at Physiological Temperature." Journal of Molecular Liquids 213 (2016): 304–311.
- 8. Parmar, Rajesh et al. "Route of Administration of Attenuated Sporozoites Is Instrumental in Rendering Immunity against Plasmodia Infection." Vaccine 2016: 3229–3234.
- 9. Joshi, C., V. Kothari, and P. Patel. "Importance of Selecting Appropriate Wavelength, While Quantifying Growth and Production of Quorum Sensing Regulated Pigments in Bacteria." Recent Patents on Biotechnology 10.2 (2016): 145-152
- 10. Garg, NK. et al. "Fucose Decorated Solid-Lipid Nanocarriers Mediate Efficient Delivery of Methotrexate in Breast Cancer Therapeutics." Colloids and Surfaces B: Biointerfaces 146 (2016): 114–126.
- 11. Garg, NK. et al. "Nanostructured Lipid Carrier Mediates Effective Delivery of Methotrexate to Induce Apoptosis of Rheumatoid Arthritis via NF-κB and FOXO1." International Journal of Pharmaceutics 499.1–2 (2016): 301–320.
- 12. Garg, NK. et al. "Effective Transdermal Delivery of Methotrexate through Nanostructured Lipid Carriers in an Experimentally Induced Arthritis Model." Colloids and Surfaces B: Biointerfaces 147 (2016): 17–24.
- 13. Prajapati, B. et al. "Preparation and Optimization of Moxifloxacin Microspheres for Colon Targeted Delivery Using Quality by Design Approach: In Vitro and In Vivo Study." Current Drug Delivery 13.7 (2016): 1021–1033.



- 14. Prajapati, B. et al. "Investigation of Chitosan for Prevention of Diabetic Progression through Gut Microbiota Alteration in Sugar Rich Diet Induced Diabetic Rats." Current Pharmaceutical Biotechnology 17.2 (2016): 173-184.
- 15. Iyer, Bhagya et al. "Organic Acid Mediated Repression of Sugar Utilization in Rhizobia." Microbiological Research 2016: 211–220.
- 16. Bhatnagar, Mukul, et al. "Sub-monolayer growth of Ag on flat and nanorippled SiO2 surfaces." *Applied Physics Letters* 108.22 (2016): 223101.
- 17. Balasubramanian, C., et al. "Defective iron-oxide nanoparticles synthesised by high temperature plasma processing: a magnetic characterisation versus temperature." Nanotechnology 27.44 (2016): 445701.
- 18. Singh, Jasbir et al. "Tunable Microwave Absorption in Co[sbnd]Al Substituted M-Type Ba[sbnd]Sr Hexagonal Ferrite." Materials and Design 110 (2016): 749–761.
- 19. Vyas, Swapnil S. et al. "Development of Real-Time Reference Evapotranspiration at the Regional Scale Using Satellite-Based Observations." International Journal of Remote Sensing 37.24 (2016): 6108–6126.
- 20. Parmar, R. et al. "Route of administration of attenuated sporozoites is instrumental in rendering immunity against Plasmodia infection." Vaccine. 34.28 (2016): 3229-3234.
- 21. Kothari, V. "Anti-virulence approach with quorum sensing as the major target for dealing with the problem of antibiotic resistance". Recent Patents on Biotechnology. 10.2 (2016):144.
- 22. Bhagya I. et al. "Organic acid mediated repression of sugar utilization in rhizobia." Microbiological Research. 192 (2016): 211–220.

Research Papers in Other UGC Listed Journals

- 1. Khambhala, P. et al. "Inhibition of Bacterial Quorum-Sensing by Ferula asafoetida Essential Oil." Advancements in Genetic Engineering 5.1 (2016): 105-106.
- 2. Purandhar, K. et al. "Study of the histoarchitectural and biochemical changes with progression of age in male mice." Zoologica Poloniae 59 (2016): 53-78.
- 3. Zaveri, P. et al. "Assessment of Enzyme Activity and Functional Microbial Diversity in Coastal and Desert Soil Ecosystems of Gujarat." Journal of Enzymology and Metabolism 2 (2016): 107-115.
- 4. Palep, H. et al. "Quorum sensing inhibition: A new antimicrobial mechanism of Panchavalkal, an Ayurvedic formulation." Bombay Hospital Journal. 58.2 (2016): 198-204.
- 5. Kothari, V. "Eukaryotic Microorganisms in Microbiology Syllabi: Better Representation Needed". Journal of Applied Biotechnology & Bioengineering. 1.1 (2016): 7.
- 6. Kothari, V. "Microbiological connection to our food, nutrition, health, and disease" Journal of Nutrition and Food Sciences. 6.5 (2016): 6(5): 129-130.
- 7. Kothari, V. et al. "Colourful side of bacteriology: The pigmented bacteria." Advancements in Genetic Engineering. 5.1 (2016) 103-104.
- 8. Seshadri S. et al. "Age-Dependent Expression of Catspers in Human and Mice Sperm." Andrology 5.1 (2016): 51-53.



- 9. Jena, P. K. et al. "Influence of Gut Microbiota on Inflammation and Pathogenesis of Sugar Rich diet induced Diabetes." Immunome Research 12.1 (2016): 109-119.
- 10. Shah, A. et al. "Sound stimulation can influence microbial growth and production of certain key metabolites." Journal of Microbiology, Biotechnology and Food Sciences. 5.4 (2016): 330-334.

Book Chapter Published

Sr. No.	Name of the Faculty	Title of the Chapter	Name of the Book	Name of Publishing	Year of Publication
	·			House	
1.	Rahul Jog,	Enhancing Soil	Plant Growth	Springer,	2016
	G. Nareshku	Health and Plant	Promoting	Singapore	
	mar and	Growth Promotion by	Actinobacteria		
	Shalini Rajk	Actinomycetes	, A New		
	umar		Avenue for		
			Enhancing the		
			Productivity		
			and Soil		
			Fertility of		
			Grain		
			Legumes		

Ph.D. Awarded

Sr. No.	Name of the Student	Name of the Guide	Title of Thesis	
1.	Rajput Mahendrapal Singh M.	Dr. Shalini Rajkumar	Carbon Catabolite Repression of Organic Acids in Phosphate Solubilizing Klebsiella Species	
2.	Yadav Sheetal	Dr. Neeta Srivastava	Intron-mediated enhancement of the expression of heterologous proteins in plants	
3.	Purandhar Kaveri	Dr. Sriram Seshadri	Understanding the role of Toll- Like Receptors and Catspers in Male Reproductive Functioning	
4.	Indira Bora	Dr. Neeta Srivastava	Inhibition of breast cancer progression by multi targeting approach using RNAi as a tool: An in Vitro Approach	
5.	Sharma Poojadevi	Dr. Neeta Srivastava	Metabolic Engineering in Catharanthus Roseus using rnai as a Tool	



6.	A. Abiramasundari	Dr. Kamala Vasu	Degradation Studies of Cardiovascular and Nonsteroidal Anti-Inflammatory Drugs and Synthesis of the Degradation Products
7.	Tripathy Madhumita	Dr. Prakash Chauhan	Modeling Photosynthetically vailable Radiation (PAR) from Satellite and Field Data and its Impact on Ocean Primary Production
8.	Gupta Anuroopa	Dr. Harish Padh	Genetic polymorphism and infectious diseases in Indian population
9.	Prabhjot Kaur	Dr. A. S. Rajawat and Dr. Prakash Chauhan	Compositional Variability of Lunar Basalts in selected Basins using Chandrayaan-1 data

Research Awards

Research Awards Received by the Faculty Members

Sr. No.	Name of the Faculty	Recognition / Honor / Award	Reason for Recognition /	Name of the organization
	Member		Honor / Award	G
1.	Dr. Sriram	Outstanding	Research	The INDUS Foundation
	Seshadri	Award for	Excellence	and Omics Publishing
		Research		Group, USA
		Excellence –		
		2016		
2.	Dr. Sriram	Outstanding	Research	Chemical Science
	Seshadri	Research Award	Excellence	Review and Letters,
		in Biochemistry-		India and Aufau
		Health Sciences-		International, USA
		2016		

Travel Grant Received by the Faculty Members / Students

- Mr. Rajesh Parmar, a student from Institute of Science received travel grant of ₹ 96,503/from Department of Science & Technology (DST), New Delhi to attend International
 Congress of Immunology-2016 at Australia. During the conference, he presented a paper
 titled, "Infectious Status of Sporozoites Evokes Innate Response, Leading to CellMediated Protective CD8+T Cell Response Against Plasmodia Infection".
- Mr. Rameshbhai Chaudhari, a student from Institute of Science received travel grant of ₹
 1,33,410/- from Bill & Melinda Gates Foundation (USA) to attend international



conference on, Vectors, Pathogens and Diseases: Current Trends and Emerging Challenges at Durban, KwaZulu-Natal, South Africa. During the conference, he presented a paper titled, "Elastic Liposome-Mediated Transdermal Immunization of Chimeric PfMSP-Fu24protein Confers Perdurable Immune Response against P. Falciparum".

Conferences / Seminars / Workshops

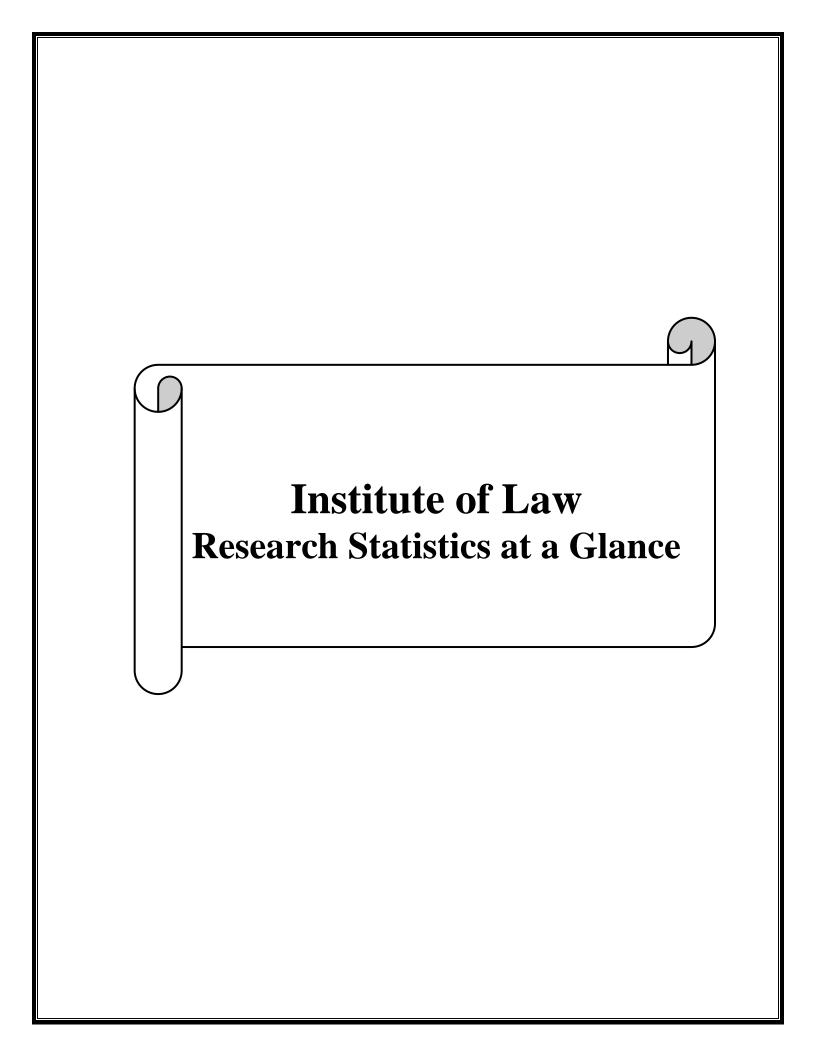
National Conference Organized by the Institute

Institute of Science organized a national conference on, "Malaria Parasite Biology: Drug Designing & Vaccine Development" during September 09-10. It was indeed a meeting of its own kind in which eminent malaria scientists from all over India came forward to discuss one of the biggest challenges of humanity, human malaria parasites. The major objective was to develop novel approaches to introduce effective therapeutic interventions against human malaria parasite. Dr. Reinhard Glueck, CSO, Vaccine Technology Center, Zydus Cadila was the Chief Guest and Dr. Narottam Sahoo, Member Secretary, GUJCOST was the Guest of Honour for inaugural function. More than 250 participants attended the conference including M.Sc. and Ph.D. students, faculty members, scientists, industry personals, etc. There were lecture sessions on themes like, parasite biology, informatics, drug designing/drug resistance and immunology & vaccine. The students participated very actively in the poster presentations where they got opportunities to discuss and interact with experts comprehensively. As outcome of this conference, the proposed strategies included Artemisinin Combination Therapy (ACT), Transmission blocking regimen and targeting DNA repair mechanism as a plausible solution to malaria infection.

Workshop Organized by the Institute

Workshop on, "Molecular Biology Techniques: Cloning to Expression"

A workshop on, "Molecular Biology Techniques: Cloning to Expression" was conducted during January 16-18, 2017 by Institute of Science, under the aegis of Center of Continuing Education, Nirma University. The workshop was sponsored by ICMR, New Delhi and supported by Orange Biotech, Chennai. The main objective of the workshop was to train young researchers and faculty members in techniques of recombinant DNA technology and acquaint them for research in molecular biology. This was achieved through brief theoretical sessions followed by hands on training.





Institute of Law - Research Statistics at a Glance

April 01, 2016 - March 31, 2017

Minor Research Projects		Total	
Completed Minor Research Projects	Projects Completed	01	
Funded by the External Funding	Total Grant	₹ 35,519/-	
Agencies			
Ongoing Minor Research Projects	Projects Ongoing	01	
Funded by Nirma University	Total Grant	₹ 1,00,000/=	
Research Publications			
Research Publications in UGC, Scop	ous and Web of Science Listed	01	
Journals			
Research Publications in Other UGC L	Listed Journals	05	
Books Published		04	
Book Chapters Published		01	
Doctoral Research			
Total Ph.D. Students from Law Discip	line	07	
Total Ph.D. Guides from Law Discipling	ne	02	
Research Awards			
Research Awards Received by the Fac	·	02	
Faculty Members who Received Fi		03	
	Funding Agencies and Nirma University for Attending International		
Conference			
Conferences / Seminars			
International / National Conferences O		01	
Seminars / Workshops / Refresher Cou	rrses Organized by the Institute	05	



Research Projects

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.	Legal Training programme	Prof. (Dr.) Purvi	Wockhardt	35,519/=
	for pharma company: Issues	Pokhariyal	Limited	
	under drugs and cosmetics		Mumbai	
	act.			
Total	₹ 35,519/=			

Ongoing Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)	
1.	Judicial Activism dealing with identity based violence: Trends and Challenges	Dr. Varsha Ganguly	1,00,000/=	
Total	Total Grant			

Research Publications

Research Publication in UGC, Scopus and Web of Science Listed Journals during 2016

1. Iyengar, Shreekant, and Ravindra H Dholakia. "What Determines Performance Gap Index of Health Care in Gujarat?" Journal of Health Management 18.1 (2016): 95–116 22p.

Research Publications in Other UGC Listed Journals during 2016

- 1. Molia, Tarkesh. "Quest Of Supreme Court In Nurturing Constitutional Governance In India" A Decadal Anatomization." Journal of Centre for the Study of Law and Governance, Vol 1, no. 1, 2016, pp. 120-141.
- 2. Saraswat, Pranav. "Credit Rating: A Service to Investors With Reference to Ahmedabad District." Paripex Indian Journal of Research, Vol 4, no. 2016, 2016, pp. 56-58.
- 3. Singh, Nongthombam Bangkim. "Agriculture and Climate Justice; Trends Of Farmers Suicide And Climate Justice In Light Of Government Plans And Policies For Farmers In India." The Journal of Legal Studies, Department of Law, University of Rajasthan, XLVI, no. II, 2016, pp. 105-106.
- 4. Kashyap, Amit Kumar. "Active Role of Indian Judiciary to Protect Refugee Rights with Special Reference to Education." Academic Discourse, Vol 5, no. I, 2016, pp. 93-99.



5. George, Jacob." Property Disputes at the WTO: Recent Trends and Challenges." Indian Journal of Air and Space Law, IX, no. II, 2017, pp. 31-55.

Books Published

Sr.	Name of the	Name of the Book	Name of	ISBN	Year of
No.	Faculty		Publishing		Publication
			House		
1.	Krishna Pal	The Right To	Allahabad Law	ASIN:	2016
	Malik	Information &	Agency	B00G6I1	
		Protection To		8HY	
		Whistleblowers			
2.	Amit Kumar	Financial Market	Business	ISBN-10:	2016
	Kashyap	Regulations and	Science	15225000	
	_	Legal Challenges in	Reference,	49	
		South Asia	USA		
3.	Varsha	Journey Towards	Centre for	97881754	2017
	Ganguly	Land Titling in India	Rural Studies,	18714,	
			Mussorie	81754187	
				10	

Book Chapter Published

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

Research Awards

Research Awards Received by the Faculty Members

Sr.	Name of the	Recognition /	Reason for	Name of the
No.	Faculty	Honor / Award	Recognition /	organization
	Member		Honor / Award	



1.	Dr. Madhuri	Young	Contribution in	CEE, Ahmedabad
	Parikh	Achiever's	Education	
		Award by CEE		
2.	Dr. Rohit	Scholarship	Private	Hague Academy of
	Moonka		International	International Law
			Law	

Travel Grant Received by the Faculty Members / Students

- 1. Prof. U. Varadharajan, Assistant Professor, Institute of Law received travel grant of ₹ 1,05,000/- from Hague Academy of International Law, The Natherlands, to attend Summer School on Public International Law.
- 2. Prof. Rejitha Nair, Assistant Professor, Institute of Law received travel grant of ₹ 24,830/from Nirma University to attend the 16th Bien Biennial Congress. During the conference,
 she presented a paper titled, "Basic Income as a Step Towards Securing Human Dignity".
- 3. Prof. Rohit Moonka, Assistant Professor, Institute of Law received travel grant of ₹ 2200/- Euros from The Hague Academy of International Law (a constituent body of International Court of Justice), Peace Palace, The Hague, The Netherlands.

Conferences / Seminars / Workshops

International / National Conference Organized by the Institute

Organized International Conference titled "Ensuring Victim's participation in the Criminal Justice System". The conference was jointly organized by Institute of Law and Indian Society of Victimology, Chennai.

Seminars Organized by the Institute

Seminar on, "Judicial Performance & Access to Justice"

The Centre for Social Justice, Institute of Law organized a seminar on, 'Judicial Performance and Access to Justice' on December 28, 2016. Mr. Harish Narasappa, Partner, Samvadand Cofounder, Daksh Foundation conducted the workshop.

Workshop Organized by the Institute

Workshop on, "Art of Reporting:Legal Journalism and Career Prospects"

Institute of Law conducted a workshop on "Legal Journalism as a Career Prospect" on August 27, 2016. The speakers Mr. Ajay Umat, (Editor-in-Chief at Navgujarat Samay), Mr. R. Prasannan (Chief of Bureau, The Week) and Mr. Somasekhar Sundaresan (Head - Securities and Regulatory Practices), Jyoti Sagar Associates (JSA) interacted with the students. Mr. Somashekar spoke about the life of journalists and the prospects one has for legal journalism. Mr. Ajay Umat, spoke on "Trial by Media". Senior Journalist, Mr. R. Prasannan, discussed the nuances about the writing skills of the reporters and the journalists. The workshop saw a good participation where students interacted on various aspects of media and law. Dr. Krishna BipinMehta, Assistant Professor and Faculty Advisor, Social Media Committee and Newsletter



Committee, ILNU coordinated for this workshop. The 13th edition of the student magazine-Axiom, was also released on this occasion.

Workshop on, "Paralegal Activities"

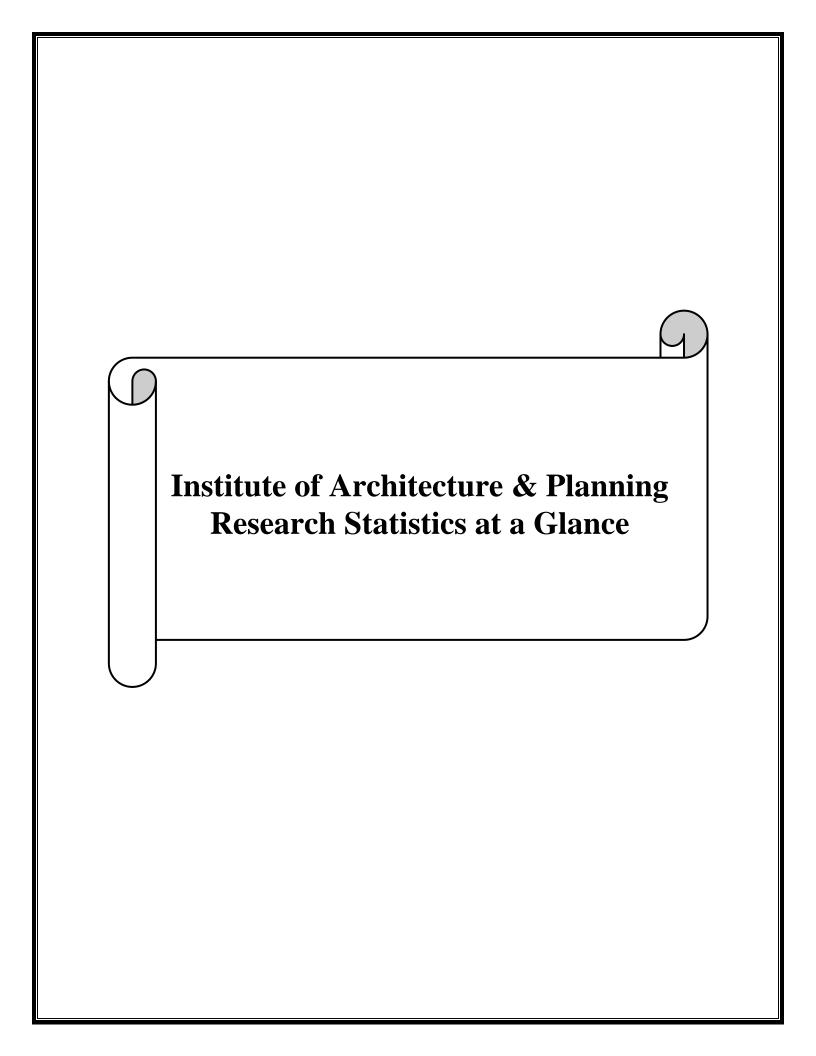
Institute of Law organized a workshop on "Paralegal Activities" on October 6, 2016 at the Institute for the students of Batch 2015 (Semester III). The topic of this workshop was "How free legal aid works". Dr. Jyotsna Yagni, Former Principal Judge, City Civil & Sessions Court, Ahmedabad was invited to conduct a workshop. The students got a broader perspective of about the legal aid initiatives by the State and Central Government.

Workshop on, "Energy Law and Electricity Law"

Shri Raj Singh Niranj, an Energy Law Expert and Counsel, Government of India conducted a workshop on Energy Law and Electricity Law on October 08, 2016 as part of their Institute Elective Courses.

Workshop for the Student Researchers

Centre for Law and Governance, Institute of Law conducted a training workshop on "Judicial Activism and Identity based Violence: Trends and Challenges" for the student researchers on December 24, 2016. About 20 students benefited from the workshop.





Institute of Architecture and Planning - Research Statistics at a Glance

April 01, 2016 - March 31, 2017

Minor Research Projects		Total	
Ongoing Minor Research Projects	going Minor Research Projects Projects Ongoing		
Funded by Nirma University	Total Grant	₹ 1,00,000/=	
Doctoral Research			
Total Ph.D. Students from Architecture	e & Planning Discipline	04	
Total Ph.D. Guides from Architecture	& Planning Discipline	01	
Research Awards			
Faculty Members who Received Fi	nancial Support from External	01	
Funding Agencies and Nirma Univer	Funding Agencies and Nirma University for Attending International		
Conference			
Conferences / Seminars			
Seminars / Workshops / Refresher Cou	rrses Organized by the Institute	03	



Research Projects

Minor Research Projects

Ongoing Minor Research Projects Funded by Nirma University

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Environment Audit Framework: Case of Nirma University	Prof. Pratima Singh	1,00,000/=
Total Grant			₹ 1,00,000/=

Travel Grant Received by the Faculty Members / Students

Prof. Utpal Sharma, Director, Institute of Architecture and Planning was invited to the IVth
World Planning Congress at Federal University, Rio-de-Janeiro, Brazil as a presenter in a
Plenary Session. As an Executive Member of the Global Planning Education Network
(GPAEN), all expenses including travel, lodging and boarding was paid by the conference
organisers. He presented a paper titled, "Nature in the City Interactions and
Contradictions".

Conferences / Seminars / Workshops

Seminars Organized by the Institute

COA-NIASA Zonal Public Jury 2016: Programme for Excellence in Architectural Thesis

Institute of Architecture and Planning hosted an annual event conducted by the Council of Architecture (COA), through its academic unit – National Institute of Advanced Study in Architecture (NIASA). The three day event was held during August 11-13, 2016. There were 44 entries, representing 74 colleges across 7 states of the west zone. Finally, 10 Shortlisted entries were selected by the eminent jurors (nominated by COA-NIASA). Prof. B.S. Bhooshan, Prof. Abhijit Shirodkar, Prof. Arvind Rangan. Prof. Jyashree Deshpande - Director COA-NIASA were also present as observers for the Public jury held on August 13, 2016. Ten Participants presented their work. At the end of the day, the best two entries were selected and awarded.

Workshop Organized by the Institute

An in-house workshop on "Origami" was organized by Institute of Architecture and Planning on August 04, 2016 for the 80 students of first year B.Arch programme.

A workshop on "Sustainability Sensitizing" was organized by Institute of Architecture and Planning from September 1 to September 2, 2016 for students of 5th semester from B.Arch. programme.



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