



## **Annual Quality Assurance Report (2017-18)**

**Submitted  
By**

**Nirma University  
Sarkhej-Gandhinagar Highway, Ahmedabad- 382 481  
Web Site: [www.nirmauni.ac.in](http://www.nirmauni.ac.in)**

**NAAC Track ID: GJUNGN10152**

**To  
The Director  
National Assessment and Accreditation Council (NAAC),  
P. O. Box No. 1075, Nagarbhavi,  
Bangalore -560072, Karnataka**

**December 2018**

**Annual Quality Assurance Report**

(Assessment Period: July 01, 2017 to June 30, 2018)

**Part – A**

<b>1.</b>	<b>Details of the Institution:</b>						
	<b>1.1</b>	Name of the Institution:	Nirma University				
	<b>1.2</b>	Address:	Nirma University, Sarkhej Gandhinagar Highway,				
		City/Town:	Ahmedabad				
		State:	Gujarat				
		Pin Code:	382 481				
		Institution E-mail Address:	dg@nirmauni.ac.in				
		Contact Nos.:	079-30642000/100/200/300/400				
		Name of the Head of the Institution:	Dr. Anup K. Singh				
		Tel. No. with STD Code:	079-30642711				
		Mobile:	09825034700				
		Name of the IQAC Co-ordinator:	Dr. Urmil Dave				
	Mobile:	09427022244					
	IQAC E-mail Address:	dy.director.adr@nirmauni.ac.in					
	<b>1.3</b>	NAAC Track ID:	GJUNGN10152				
	<b>1.4</b>	NAAC Executive Committee No. & Date:	10 <sup>th</sup> Meeting of the Standing Committee held on 15-11-2015				
	<b>1.5</b>	Website Address:	www.nirmauni.ac.in				
		Web-link of the AQAR:	http://www.nirmauni.ac.in/NU/AQAR				
	<b>1.6</b>	Accreditation Details:					
			Sr. No.	Cycle	Grade	CGPA	Year of Accreditation
		1	1 <sup>st</sup> Cycle	B	2.93	2010	Five Years
	2	2 <sup>nd</sup> Cycle	A	3.18	2015	Five Years	
<b>1.7</b>	Date of Establishment of IQAC :	24/09/2009					
<b>1.8</b>	AQAR for the year	2017-18					
<b>1.9</b>	Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC:						
	(i)	AQAR 2010-11	03-11-2011				
	(ii)	AQAR 2011-12	28-12-2012				
	(iii)	AQAR 2012-13	19-12-2013				
	(iv)	AQAR 2013-14	24-11-2014				

	(v)	AQAR 2014-15	12-05-2015
	(vi)	AQAR 2015-16	13-10-2016
	(vii)	AQAR 2016-17	21-12-2017
	(viii)	AQAR 2017-18	29-12-2018
<b>1.10</b>	Institutional Status:		
	University:	State Private	
	Affiliated College:	No	
	Constituent College:	Yes	
	Autonomous college of UGC:	No	
	Regulatory Agency approved Institution:	Yes (PCI - Pharmacy Council of India, BCI - Bar Council of India, CoA - Council of Architecture)  Note: Being a University, for Engineering and Management, the AICTE prior approval is not required as per the announcement made by the AICTE in pursuance to the Hon'ble Supreme Court of India judgement in the case of Bharathidasan University v. AICTE	
	Type of Institution:	Co-education Urban	
Financial Status:	Self-financing		
<b>1.11</b>	Type of Faculty/Programme:		
	Arts	--	
	Science	√	
	Commerce	√	
	Law	√	
	PEI (Phys Edu)	--	
	TEI (Edu)	--	
	Engineering	√	
	Health Science	√ (Pharmacy)	
	Management	√	
Others (Specify)	√ (Architecture & Planning) √ (Department of Design)		
<b>1.12</b>	Name of the Affiliating University (for the Colleges)	Not Applicable	
<b>1.13</b>	Special status conferred by Central / State Government - UGC / CSIR / DST / DBT / ICMR etc.		
	Autonomy by State / Central Govt. / University:	University Established by the State Act	
	University with Potential for Excellence:	-	
	DST Star Scheme UGC-Special Assistance Programme:	Being a statutory private University, at present it is not covered under Section 12 (B) of the UGC Act. Thus, although	

	UGC-Innovative PG programmes	there is potentiality, the University is not eligible for such assistance. Note: The University has applied for 12 (B) status of the UGC based on its credentials and the progress made in a short span.
	UGC-COP Programmes:	
	Any other ( <i>Specify</i> ):	Recognition of 'Scientific and Industrial Research Organisation (SIRO)' by Department of Scientific and Industrial Research, Govt. of India.
<b>2. IQAC Composition and Activities:</b>		
<b>2.1</b>	No. of Teachers:	07
<b>2.2</b>	No. of Administrative / Technical Staff:	04
<b>2.3</b>	No. of Students:	01
<b>2.4</b>	No. of Management Representatives:	01
<b>2.5</b>	No. of Alumni:	01
<b>2.6</b>	No. of any other Stakeholder and Community Representatives:	--
<b>2.7</b>	No. of Employers / Industrialists:	03
<b>2.8</b>	No. of other External Experts:	--
<b>2.9</b>	Total No. of Members:	17
<b>2.10</b>	Total No. of IQAC meetings at the Institute during July 1, 2016 to June 30, 2017:	55
<b>2.11</b>	No. of Meetings with Students by Head of Institute (HoI) during July 1, 2016 to June 30, 2017:	27
	<sup>@</sup> No. of Meetings with Alumni by HoI July 1, 2016 to June 30, 2017:	27
	<sup>&amp;</sup> No. of Meetings with Non-Teaching Staff by HoI July 1, 2016 to June 30, 2017:	42
	<sup>&amp;</sup> No. of Meetings with Faculty by HoI July 1, 2016 to June 30, 2017:	77
	Note: a) <sup>@</sup> Every constituent Institute of the University has an Alumni Association. The Institutes have conducted 27 meetings (approximately) during the period. Apart from this, the University has a Nirma University Alumni Forum of the past students of the University. b) <sup>&amp;</sup> The Institutes' Heads conduct meetings with the Departments Heads and the Departments' Heads conduct regular meeting with the faculty and staff members.	
<b>2.12</b>	Has IQAC received any funding from the UGC during the year?  No, Nirma University being a statutory private University, it is not covered under Section 12 (B) of the UGC Act and hence not eligible for funding from the UGC. However, the University has applied for 12 (B) status of the UGC, based on its credentials and significant progress it has made in a very short span.	

	2.13	<p><b>Seminars and Conferences (only quality related):</b></p> <p>No. of Seminars/Conferences/Workshops/Symposia organized by the IQAC: 09</p> <p>For details, please refer to Annexure-1.</p>
	2.14	<p>Significant activities and contributions made by IQAC:</p> <ul style="list-style-type: none"> <li>• The University and four of its constituent institutes participated in the NIRF ranking. The preparations for the same were coordinated by the concerned IQAC of the institute.</li> <li>• Implemented the scheme of Awards and Incentives for the faculty members for their outstanding contribution in teaching and research.</li> <li>• Implemented the scheme of Awards and Incentives for the staff members for their outstanding contribution in their work domain</li> <li>• Implemented the scheme of allocating fund for the major research projects. In the second round, funding of ₹ 29,90,700 was allocated to a group of faculty members for an interdisciplinary project.</li> <li>• Organized four-week Induction Training and ten-week Research Orientation for the faculty members of the constituent institutes.</li> <li>• Refresher programs for faculty members were organized at the constituent institutes of the University</li> <li>• Organized a two day workshop on, “Intellectual Property-Ideas to Asset” jointly with Intellectual Property Protection Organization Pvt. Ltd., Ahmedabad on February 02-03, 2018.</li> <li>• Institute of Technology signed MoUs with Carleton University, Canada, University of Georgia, USA State University of New York, Binghamton for academic and research collaborations.</li> <li>• Institute has signed MoUs with Penn State University, (USA) and HOF University, (Germany)</li> <li>• National Board of Accreditation (NBA) approved pre-qualifier for accreditation was submitted by Mechanical, Chemical, Computer, Electronics and communication Engineering Departments of Institute of Technology and by Institute of Pharmacy. These departments have implemented Outcome Based Education (OBE) model for teaching-learning. The OBE based attainment level of various courses was calculated by respective course coordinator using a unique and scientific methodology devised as per the NBA guideline</li> <li>• Outcome Based Education (OBE) model is being implemented at Institute of Management and Institute of Law</li> <li>• Student satisfaction survey for third year students of all the constituent institutes was carried out</li> <li>• University applied to get Institute of Eminence status to Government of India</li> <li>• Institute of Technology enrolled for a program “College to Corporate” conducted using the hybrid/blended MOOC pedagogy developed by IIT Bombay. The program is for pre-final and final year students, to help them to prepare for the corporate world, and perform better in the recruitment process</li> <li>• An initiative was also taken to start interdisciplinary minor- Minor of</li> </ul>

		Information Technology for BBA+ MBA program and Minor in Engineering for Management students						
2.15	Plan of Action by IQAC/Outcome (The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year):	<table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achievements</th> </tr> </thead> <tbody> <tr> <td>To comply with the requirements with regards to the observations made in the NAAC report.</td> <td>The NAAC Peer Team report was discussed several times during the meeting and necessary steps were taken to comply with the requirements.</td> </tr> <tr> <td>To strengthen the research activities at the University.</td> <td> <ul style="list-style-type: none"> <li>• The 'Directorate of Research and Innovation' organized expert lectures, research related workshops and seminars to strengthen the research activities at the University.</li> <li>• Various International/National Conferences/ Workshops/Seminars/Paper writing clinics were organized to provide a platform to researchers to present their research work and collaborate.</li> <li>• Institute of Technology has initiated development of small satellite pay load system. Mr. Kannan and Mr. Y.P. Rana, from ISRO visited Institute of Technology and gave a presentation on the various aspects of the development of Small Satellite to students and faculty members. It was followed by a meeting with Director-IT and senior faculty members wherein the entire process involved for applying for the project was explained.</li> <li>• Directorate of Research and Innovation organized a full-day seminar for all Doctoral Students (Full Time and External), Nirma University on January 20, 2018. The seminar was attended by 109 Doctoral Students of Nirma University.</li> <li>• A two day workshop on, "Intellectual Property-Ideas to Asset" was jointly organized by Directorate of Research and Innovation (DRI), Nirma University and Intellectual Property Protection Organisation Pvt. Ltd., Ahmedabad on February 02-03, 2018.</li> <li>• The Directorate of Research &amp; Innovation (DRI), Nirma University and the Institute for Plasma Research (IPR) jointly organized a three-day meeting of the Project Investigators / Collaborators and the Experts in the field of Plasma, Fusion Science, Fusion Technology and Allied Areas. The meeting was</li> </ul> </td> </tr> </tbody> </table>	Plan of Action	Achievements	To comply with the requirements with regards to the observations made in the NAAC report.	The NAAC Peer Team report was discussed several times during the meeting and necessary steps were taken to comply with the requirements.	To strengthen the research activities at the University.	<ul style="list-style-type: none"> <li>• The 'Directorate of Research and Innovation' organized expert lectures, research related workshops and seminars to strengthen the research activities at the University.</li> <li>• Various International/National Conferences/ Workshops/Seminars/Paper writing clinics were organized to provide a platform to researchers to present their research work and collaborate.</li> <li>• Institute of Technology has initiated development of small satellite pay load system. Mr. Kannan and Mr. Y.P. Rana, from ISRO visited Institute of Technology and gave a presentation on the various aspects of the development of Small Satellite to students and faculty members. It was followed by a meeting with Director-IT and senior faculty members wherein the entire process involved for applying for the project was explained.</li> <li>• Directorate of Research and Innovation organized a full-day seminar for all Doctoral Students (Full Time and External), Nirma University on January 20, 2018. The seminar was attended by 109 Doctoral Students of Nirma University.</li> <li>• A two day workshop on, "Intellectual Property-Ideas to Asset" was jointly organized by Directorate of Research and Innovation (DRI), Nirma University and Intellectual Property Protection Organisation Pvt. Ltd., Ahmedabad on February 02-03, 2018.</li> <li>• The Directorate of Research &amp; Innovation (DRI), Nirma University and the Institute for Plasma Research (IPR) jointly organized a three-day meeting of the Project Investigators / Collaborators and the Experts in the field of Plasma, Fusion Science, Fusion Technology and Allied Areas. The meeting was</li> </ul>
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			organized at the Nirma University campus during April 26-28, 2018
		To strengthen the intra-institute and inter-institute research activities.	Institute and department level research committees were formed to provide a platform for intra-institute and inter-institute research activities among faculty members and students of different institutes/departments of the University.
		To improve the quality of Doctoral Thesis language point of view	Appointment of Language Editor to suggest improvement in the quality of language in the Ph.D. thesis wherever required.
		To implement a scheme of providing fund to the faculty members for the major research projects.	The scheme was implemented and in the third round a major research project with a funding of ₹ 29,90,700 was allocated for inter-disciplinary project by group of faculty members from Institute of Technology and Institute of Science.
		To prepare the Rules for Preventing Plagiarism.	Rules for Preventing Plagiarism were approved by the competent authority of the University and circulated amongst the faculty, students and staff.
		To perform the Academic Audit at the constituent institutes of the University.	The Academic Audits at individual, department and university levels were conducted at all the constituent institutes of the University. A fourth level of Academic audit, viz audit by external expert was conducted
		To organize Faculty Development Programmes on a larger scale	A four-week Faculty Induction, ten-week Research Orientation Programmes were organized. Several Refresher Programmes were also organized at Institute level.
		To strengthen collaboration with foreign Universities	At Institute of Technology following is done during the current year: <ul style="list-style-type: none"> <li>• Institute of Technology signed MoU with Wadhvani Foundation, California, USA MoU on September 1, 2017</li> <li>• Director, Institute of Technology visited USA and Canada based Universities in the month of September 2017 with an objective of exploring possibilities of collaboration with the top-ranked US and Canadian Universities / Colleges</li> <li>• Institute signed MoUs with Carleton University, Canada, University of Georgia, USA State University of New York, Binghamton for academic and research explorations.</li> <li>• Further, Institute is in collaborative discussions with University of Southern California, USA, Iowa State University, USA, University of Houston, USA</li> <li>• Faculty and Dean from SUNY Binghamton, Carleton University and USC visited the Institute.</li> <li>• Dr. Banu Ormeci, Professor at Carleton University delivered a lecture for faculties and students of the institute. She also visited nearby villages for potential sites for implementation of</li> </ul>

			<p>wastewater projects.</p> <ul style="list-style-type: none"> <li>• Dr. Pauline Rankin, Associate vice president (Research and International) and Mr. Harry Sharma, Manager, Carleton University discussed regarding joint social innovation program for Carleton and Nirma students.</li> <li>• Pre-approved M.S programs are offered in collaboration with Binghamton University.</li> <li>• Civil Engineering Department regularly undertakes joint research projects with the University of Victoria Canada.</li> <li>• Efforts were also made by the Civil and Electrical Engineering Departments for the international collaboration for obtaining funding for the research projects.</li> <li>• Information Technology and Civil Engineering Departments explored the possible international collaboration under the Fulbright specialist program. The program pairs highly qualified U.S. academics and professionals with host institutions abroad to share their expertise, strengthen institutional linkages while building capacity at their overseas host institutions</li> <li>• One student each from B.Tech. Electrical Engineering and B.Tech. Mechanical Engineering carried out their major projects of Semester VIII at University of Pretoria, South Africa and FAU, USA respectively.</li> <li>• Total nine students underwent their summer internship in various USA based universities namely SUNY Binghamton, Florida Atlantic University, University of Houston, Iowa State University</li> </ul> <p>At Institute of Law, following is done during the current year</p> <ul style="list-style-type: none"> <li>• Institute has signed MoUs with Penn State University, (USA) and HOF University, (Germany)</li> <li>• Foreign legal system course was conducted by faculty from Penn State University and HOF University</li> </ul>
		To apply for funds under improvement of infrastructure	FIST proposal to Department and Science and Technology was submitted by the EC department of Institute of Technology in June 2018 as planned.
		Increase in number of premium hiring	At Institute of Technology, 45 premier companies visited in the year 2017 while in 2018, total 54 premier companies visited campus for placement. Increase in premium hiring companies by 20%.
		To strengthen collaboration with industry	At Institute of Technology following is done during the current year:



			<ul style="list-style-type: none"> <li>• Mechanical Engineering Department submitted the proposal to Centre for Entrepreneurship Development (CED), Government of Gujarat for establishing Advanced Metrology Centre at the Institute with an objective of enhancement of technical competence and skilled manpower in the state of Gujarat.</li> <li>• Computer Engineering Department approached NVIDIA for technical collaboration. Two interactive workshops were organised in collaboration with NVIDIA during the period of review.</li> <li>• Civil Engineering Department approached NUVOCO for possible collaboration. NUVOCO will support by allowing PG students for R&amp;D work at NUVOCO laboratories</li> <li>• Electrical Engineering Department explored the Siemens laboratory developed by PDPU under PPP mode</li> <li>• Instrumentation and Control Engineering Department has active MoU with Mitsubishi Electric. The Department organised Mitsubishi Electric Cup 2018 in the month of February 2018 in the University campus. Total 130 teams participated from different states of India. During this event, Mitsubishi Electric gave a Robot for educational purpose to the Institute</li> </ul>
		To establish star-up Incubator	<ul style="list-style-type: none"> <li>• University has applied for the grant under Atal Incubation centre to establish an incubation centre in the University campus. The proposal was shortlisted for the presentation. The process of establishing a physical incubator is initiated.</li> </ul>
<b>2.16</b>	Whether the AQAR was placed in statutory body: --		
	Management:	√	
	Syndicate:	Not Applicable	
	Any other body:	√ University Level IQAC Committee	
	Provide the details of the action taken: Suggestions given by the University level IQAC are incorporated in the report.		

**Part – B****CRITERION – I**

<b>1.</b>	<b>Curricular Aspects:</b>																																											
	<b>1.1</b>	<b>Details about Academic Programmes:</b>																																										
		<table border="1"> <thead> <tr> <th>Level of the Programme</th> <th>Number of existing Programmes</th> <th>Number of Programmes added during the year</th> <th>Number of self-financing Programmes</th> <th>Number of value added / Career Oriented Programmes</th> </tr> </thead> <tbody> <tr> <td>Ph. D.</td> <td>6</td> <td>-</td> <td>6</td> <td>-</td> </tr> <tr> <td>PG</td> <td>30</td> <td>-</td> <td>30</td> <td>-</td> </tr> <tr> <td>UG</td> <td>16</td> <td>2</td> <td>16</td> <td>-</td> </tr> <tr> <td>PG Diploma</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Advanced Diploma</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Certificate</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td><b>Total</b></td> <td><b>52</b></td> <td><b>2</b></td> <td><b>52</b></td> <td><b>-</b></td> </tr> </tbody> </table>	Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes	Ph. D.	6	-	6	-	PG	30	-	30	-	UG	16	2	16	-	PG Diploma	-	-	-	-	Advanced Diploma	-	-	-	-	Certificate	-	-	-	-	<b>Total</b>	<b>52</b>	<b>2</b>	<b>52</b>	<b>-</b>		
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		<p><b>List of Inter-disciplinary and Innovative Academic Programmes:</b></p> <ol style="list-style-type: none"> <li>1. M.Tech. by Research (Innovative Programme)</li> <li>2. MBA in Family Business &amp; Entrepreneurship (Innovative Programme)</li> <li>3. BBA-MBA (Five Year Integrated Innovative Programme)</li> <li>4. M.Pharm. Regulatory Affairs (Innovative Programmes)</li> </ol>																																										
	<b>1.2 (i)</b>	<p><b>Flexibility of the Curriculum:</b></p> <ul style="list-style-type: none"> <li>• The curriculum has Department, Institute and University electives options.</li> <li>• Provision of elective courses is made at PG level also.</li> <li>• There is provision for Audit, Special Audit, Supplementary Courses, Enrichment (Valued Added) Courses.</li> <li>• Choice of foreign language course from a pool of foreign language courses.</li> <li>• Massive Online Open Courses (MOOCs) and NPTEL (National Programme on Technology Enhanced Learning) courses are also offered as non-credit courses.</li> <li>• There is a scheme of B.Tech. with Minor Specialization for programmes at the Institute of Technology, wherein a student can opt the elective of a specialize area for the minor degree in B.Tech.</li> <li>• There are general Electives for MBA (Full Time) students at Institute of Management.</li> <li>• BTech students at Institute of Technology have flexibility to undertake internship in foreign universities for a period of six weeks</li> </ul>																																										

1.2 (ii)	<b>Pattern of Programmes:</b> <table border="1" data-bbox="683 222 1235 352"> <thead> <tr> <th>Pattern</th> <th>Number of Programmes</th> </tr> </thead> <tbody> <tr> <td>Semester</td> <td>47</td> </tr> <tr> <td>Trimester</td> <td>05</td> </tr> <tr> <td>Annual</td> <td>--</td> </tr> </tbody> </table>								Pattern	Number of Programmes	Semester	47	Trimester	05	Annual	--								
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1.3	<b>Feedback from Stakeholders:</b> <table border="1" data-bbox="483 422 1429 558"> <thead> <tr> <th>Alumni</th> <th>√</th> <th>Parents</th> <th>√</th> <th>Employers</th> <th>√</th> <th>Students</th> <th>√</th> </tr> </thead> <tbody> <tr> <td>Online</td> <td>√</td> <td>Manual</td> <td>√</td> <td>Co-operating schools (for PEI)</td> <td>-----</td> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="493 600 1032 632"><b>Summary of Feedback from the Students:</b></p> <ul data-bbox="540 674 1429 947" style="list-style-type: none"> <li>• Feedback related to improving existing infrastructure, curriculum, infrastructure, learning resource and teaching-learning process etc. from the student is regularly received through informal feedback, mentoring, structured feedback and interactions.</li> <li>• Most of the students have expressed satisfaction for overall course structure and appreciated flexibility in selecting the elective courses</li> <li>• In general, the feedback from the students is to update the courses to include more topics as per industrial relevance.</li> </ul> <p data-bbox="493 982 1429 1045">Following were specific suggestions/feedback given by the students from the constituent Institutes:</p> <p data-bbox="493 1087 792 1119"><b><u>Institute of Technology</u></b></p> <ul data-bbox="540 1125 1429 1545" style="list-style-type: none"> <li>• UG students should be offered more projects in an industry to get more practical exposure.</li> <li>• Students appreciated the courses and were of the opinion that the courses reflected high learning values in terms of knowledge, concept skill, analytical abilities and perspectives</li> <li>• Courses have an adequate balance of theory and practice</li> <li>• Carry extension activities including physical exercise, gardening, adventure camps, group activities and discussion camps.</li> <li>• The teaching scheme is found in synchronization with the recent trends in the field.</li> <li>• Department and Institute electives makes the syllabus cater their interest and groom them for the industry</li> </ul> <p data-bbox="493 1587 740 1619"><b><u>Institute of Science</u></b></p> <ul data-bbox="540 1625 1429 1730" style="list-style-type: none"> <li>• Training during the three semesters and dissertation was appreciated by the students</li> <li>• Courses are regularly updated with current research trends</li> </ul> <p data-bbox="493 1772 776 1803"><b><u>Institute of Pharmacy</u></b></p> <ul data-bbox="540 1810 1429 1908" style="list-style-type: none"> <li>• The students have given high ratings to teacher quality, mentoring, training and placement support, administrative services, teaching learning and evaluation components</li> </ul>								Alumni	√	Parents	√	Employers	√	Students	√	Online	√	Manual	√	Co-operating schools (for PEI)	-----		
Alumni	√	Parents	√	Employers	√	Students	√																	
Online	√	Manual	√	Co-operating schools (for PEI)	-----																			

		<ul style="list-style-type: none"> <li>• They are satisfied with curriculum, student research, student welfare, campus facility and overall services</li> </ul> <p><b><u>Institute of Law</u></b></p> <ul style="list-style-type: none"> <li>• Patronage to sports and extracurricular activities should be supported by the Institute</li> <li>• Language Lab should be established to improve English communication skills</li> <li>• Law practitioners should be given excessive time</li> </ul> <p><b>Summary of Feedback from the Parents:</b></p> <p>Following were specific suggestions/feedback given by the parents from the constituent Institutes:</p> <p><b><u>Institute of Technology</u></b></p> <ul style="list-style-type: none"> <li>• Parents opined that excellent teaching and placement support is provided from the institute.</li> <li>• Parents appreciated the conducive environment which the University provides for the development of students.</li> <li>• Hostel facilities should be provided to UG students particularly for girl students.</li> <li>• Institute should offer new PG courses like Internet of Things, Cyber Threat Intelligence, Firewall understanding and configuration, Social engineering, Software development should be offered</li> <li>• Final year student should be given the project based on funded research</li> <li>• Number of suggested books/references copies should be increased in the library.</li> <li>• An Internship should be considered as a subject with credits.</li> <li>• Promoting more extra-curricular and co-curricular activities.</li> <li>• Workshops on finance &amp; marketing management, entrepreneurship, personality and leadership skills, time management etc. should be organized</li> <li>• Parents suggested adding some books to the curriculum.</li> </ul> <p><b><u>Institute of Science</u></b></p> <ul style="list-style-type: none"> <li>• Institute is research oriented and student centric.</li> <li>• Institute motivates the students to perform research</li> </ul> <p><b><u>Institute of Pharmacy</u></b></p> <ul style="list-style-type: none"> <li>• Parents gave a positive feedback about the Institute.</li> <li>• Parents appreciated the quality of curriculum, guiding by faculty, attendance and discipline regulations, quality of teaching, academic progress of their ward, infrastructure facilities, Co-curricular and Extracurricular activities</li> <li>• More companies should be invited for campus placements</li> <li>• Expert lectures on time management, leadership skills, entrepreneurship etc. should be organized</li> </ul>
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	<p><b><u>Institute of Management</u></b></p> <ul style="list-style-type: none"> <li>• Parents had requested to send time-table to them</li> </ul> <p><b><u>Institute of Law</u></b></p> <ul style="list-style-type: none"> <li>• Parents appreciated culture of discipline, academic rigor and mentorship</li> <li>• Bridge courses / remedial courses were suggested in a few courses where difficulty levels are high.</li> </ul> <p><b>Summary of Feedback from the Alumni:</b></p> <p>Following were specific suggestions/feedback given by the alumni from the constituent Institutes:</p> <p><b><u>Institute of Technology</u></b></p> <ul style="list-style-type: none"> <li>• Update courses to include more topics and subjects as per industrial relevance and latest trends in market</li> <li>• Undergraduate students must be offered an industry based projects</li> <li>• Feedback regarding new technology, software and infrastructure were received</li> <li>• Industrial exposure should be given to the students in all the semesters during vacation</li> <li>• Introduce courses on software build systems (Ant, Maven, Gradle), CI/CD tools (Travis, Jenkins), Version Control Systems like Git and competitive programming at computer science and engineering department</li> <li>• Introduce course on how to set up start up</li> <li>• Focus on Soft skills (primarily writing)</li> <li>• Sports hour/s should be included in the timetable</li> <li>• The concept of project based learning is useful</li> <li>• Students should be allowed to pursue their own ideas in the implementation of mini/minor/major projects</li> <li>• Elective subjects should be offered even if fewer numbers of students have registered for the subject</li> <li>• For sessional and class test, only one subject test per day should be conducted</li> <li>• Relaxation in attendance was suggested</li> <li>• Request to sign MoUs with industry or organisation for the usage of FABLAB and machines like 3D printer, Laser cutting and CNC machine</li> <li>• Increase in laboratory hours compare to theory hours</li> <li>• Topics related to aptitude and Interview preparation should be part of BTech Semester 7 curriculum</li> <li>• Diploma to Degree students should be offered a prerequisite course on Basics of Electrical Engineering.</li> <li>• Estimation and Costing should be taught along with the relevant subject.</li> <li>• Course on AutoCAD should be included for Electrical Engineering students</li> </ul>
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		<ul style="list-style-type: none"> <li>• The scope of Industrial visits should be expanded with a view to cover broader areas of the subjects.</li> <li>• Integrated course of B.Tech. with MBA can be offered.</li> <li>• More emphasis should be given to developing logical reasoning and problem solving.</li> </ul> <p><b><u>Institute of Science</u></b></p> <ul style="list-style-type: none"> <li>• Institute has provided thorough theoretical knowledge as well as practical expertise</li> <li>• Career guidance and support provided by faculty members helped in further studies.</li> <li>• Suggestion pertaining to course updating is regularly implemented</li> </ul> <p><b><u>Institute of Pharmacy</u></b></p> <ul style="list-style-type: none"> <li>• Alumni are satisfied with the curriculum, support, interaction and networking opportunities provided by the institute</li> </ul> <p><b><u>Institute of Management</u></b></p> <ul style="list-style-type: none"> <li>• Curriculum should focus more on experiential learning by incorporating feedback from corporate interactions and placement process.</li> <li>• Courses on Data Analytics (using Python &amp; R languages), Fund Raising, Risk Management, Recruitment (having gamification), Cloud Computing &amp; Security Management, Internet Marketing (having digital marketing skill set) should be introduced.</li> <li>• Increase the frequency of rural projects as this helps a lot in understanding the behaviour of bottom 10% market of India.</li> <li>• Curriculum should give more weightage to live projects (on field projects as per current need of organizations), simulation exercises and industry interaction</li> <li>• Certification courses should also be provided.</li> <li>• Focus on overall development.</li> </ul> <p><b><u>Institute of Law</u></b></p> <ul style="list-style-type: none"> <li>• The post college alumni experiences are to be shared to students to guide them in their preparation for the professional practice and competence development.</li> <li>• Alumni suggested use AlmaShines / AlmaConnect / LinkedIn and other social media platforms to have a close knit association of students.</li> <li>• A dedicated student alumni office and office bearers of the office should be constituted.</li> </ul> <p><b>Summary of Feedback from the Recruiters/Industries:</b> Following were specific suggestions/feedback given by the alumni from the constituent Institutes:</p> <p><b><u>Institute of Technology</u></b></p> <ul style="list-style-type: none"> <li>• Course can be more oriented on the students solving problems and</li> </ul>
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		<p>real industrial examples</p> <ul style="list-style-type: none"> <li>• The revised structure of B.Tech first year is well planned. The introduction of the new courses in the first year is very good initiative.</li> <li>• Feedback related to the inclusion of latest technology and software in the curriculum is received from Recruiters/Industries/ Research Organization.</li> <li>• The subjects which are dealing with environment and energy must include more insight into practical and industry related aspects.</li> <li>• More emphasis on energy audit, energy management, and energy saving opportunities with relevant case studies.</li> <li>• Introduce courses on Internet of Things, Machine Learning, Artificial Intelligence, Embedded Vision in Embedded Systems, Smart Sensors, Big Data and Industrial Network in Electronics and Communication Engineering</li> <li>• In Automation, different areas like factory automation, process automation, Building Automation, Infrastructure automation, Healthcare automation can also be covered.</li> <li>• Emphasis should be given on Corporate Communication Skills.</li> <li>• The subject “Statistical Signal Processing” is extremely important for the communication engineering students, especially RF engineers.</li> <li>• Stochastic/ Random process is to added as part of the subject in Electronics and Communication Engineering</li> <li>• Introduction of the mini-projects in early semesters supports the concept of Project based learning.</li> <li>• Include summer internship, so the student can do better in a minor project during semester.</li> <li>• More industrial visits can be planned to provide better practical exposure for the relevant areas</li> </ul> <p><b><u>Institute of Science</u></b></p> <ul style="list-style-type: none"> <li>• Students possess good communication skill.</li> <li>• Students are well prepared for their interviews and confident with their objectives.</li> <li>• Students show commendable attitude towards company and job.</li> <li>• Students are thorough in their theoretical concepts and theories.</li> <li>• Students are good in Problem identification and problem solving skills</li> </ul> <p><b><u>Institute of Pharmacy</u></b></p> <ul style="list-style-type: none"> <li>• The experience of recruitment with Nirma University is very good</li> <li>• Responsiveness and support by University during recruitment was appreciated</li> <li>• Students possess good theoretical Knowledge, problem Identification and problem solving skills, knowledge of industry trends, terminology and process, communication skills</li> <li>• Students have excellent dressing and overall personality</li> <li>• Infrastructure of the University, curriculum and course were appreciated</li> </ul>
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	<p><b><u>Institute of Management</u></b></p> <ul style="list-style-type: none"> <li>• Students need to improve in the areas of general business awareness, technical skills, communication and presentation skills, all-round development and be updated with latest relevant market trends.</li> <li>• Students need to be thorough with the basics of respective specialization along with good knowledge about projects done. Focus on more analytical projects during MBA and internship.</li> <li>• To have more orientation on data analysis, supply chain, Excel skills and general awareness</li> </ul> <p><b><u>Institute of Law</u></b></p> <ul style="list-style-type: none"> <li>• The basic knowledge in law and relevant skill sets of the students are satisfactory</li> <li>• The core courses of law such as Constitutional Law, Contract Law, IPR, Criminal Law and Corporate law should be encouraged</li> </ul>				
1.4	<p><b>Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.</b></p> <p>Yes, the syllabi of various programmes have been revised / updated. Salient features of the syllabus updation are given below.</p> <table border="1" data-bbox="495 955 1429 1896"> <thead> <tr> <th data-bbox="495 955 685 1014">Name of the Institute</th> <th data-bbox="685 955 1429 1014">Details of Syllabus Updation</th> </tr> </thead> <tbody> <tr> <td data-bbox="495 1014 685 1896"><b>Institute of Technology</b></td> <td data-bbox="685 1014 1429 1896"> <p><b><u>B.Tech.</u></b></p> <ul style="list-style-type: none"> <li>• B.Tech. first year curriculum was revised and will be implemented from the academic year 2018-2019.</li> <li>• The subjects Calculus and Differential Equations, Chemistry, Physics Environment Studies, Computer Programming, Engineering Graphics, Elements of Electrical and Electronics Engineering, Mechanical Workshop, Electrical Workshop, Linear Algebra, were introduced in the revised curriculum of B.Tech. (All programs).</li> <li>• In Civil Engineering Mechanics of Solids is introduced in place of Physics at B.Tech semester 1</li> <li>• Branch-specific introductory course was also added in the curriculum of all programs of B.Tech in 2<sup>nd</sup> semester</li> <li>• Course on English Communication has two levels-higher and lower levels for the English medium and vernacular medium students respectively.</li> <li>• Supplementary courses on Design Thinking, Law and Engineering, ICT tools and Cyber Security, Yog and Meditation were included in the curriculum of B.Tech first year (All Programs).</li> <li>• Minor specialisations in the area of Robotics and Automation, Entrepreneurship and Construction Technology is added</li> <li>• Interdisciplinary minor- Minor of Information Technology for BBA + MBA integrated program is started</li> <li>• Revision in the syllabus of first year courses of Mechanics of Solids and Environmental Engineering is done</li> <li>• Teaching and Examination scheme of Semester VI and Semester VII for B. Tech. Computer Engineering and B. Tech. Information Technology was changed due to addition of department electives “Internet of Things” and “Deep Learning”, addition of practical</li> </ul> </td> </tr> </tbody> </table>	Name of the Institute	Details of Syllabus Updation	<b>Institute of Technology</b>	<p><b><u>B.Tech.</u></b></p> <ul style="list-style-type: none"> <li>• B.Tech. first year curriculum was revised and will be implemented from the academic year 2018-2019.</li> <li>• The subjects Calculus and Differential Equations, Chemistry, Physics Environment Studies, Computer Programming, Engineering Graphics, Elements of Electrical and Electronics Engineering, Mechanical Workshop, Electrical Workshop, Linear Algebra, were introduced in the revised curriculum of B.Tech. (All programs).</li> <li>• In Civil Engineering Mechanics of Solids is introduced in place of Physics at B.Tech semester 1</li> <li>• Branch-specific introductory course was also added in the curriculum of all programs of B.Tech in 2<sup>nd</sup> semester</li> <li>• Course on English Communication has two levels-higher and lower levels for the English medium and vernacular medium students respectively.</li> <li>• Supplementary courses on Design Thinking, Law and Engineering, ICT tools and Cyber Security, Yog and Meditation were included in the curriculum of B.Tech first year (All Programs).</li> <li>• Minor specialisations in the area of Robotics and Automation, Entrepreneurship and Construction Technology is added</li> <li>• Interdisciplinary minor- Minor of Information Technology for BBA + MBA integrated program is started</li> <li>• Revision in the syllabus of first year courses of Mechanics of Solids and Environmental Engineering is done</li> <li>• Teaching and Examination scheme of Semester VI and Semester VII for B. Tech. Computer Engineering and B. Tech. Information Technology was changed due to addition of department electives “Internet of Things” and “Deep Learning”, addition of practical</li> </ul>
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		<p>component in “Artificial Intelligence”, and shifting of “Organizational Behaviour” to semester VI from semester VII.</p> <ul style="list-style-type: none"> <li>• A course on Electric Vehicles was introduced as departmental elective in the curriculum of B.Tech. in Electrical Engineering</li> <li>• Minor in “Computing with IoT and Cloud” was introduced for students of B.Tech. Computer Science Engineering and Information Technology.</li> <li>• Five elective courses were added to the curriculum of B.Tech in Mechanical Engineering.</li> <li>• The syllabus was revised for Engineering Graphics, Mechanical Workshop, Maintenance Engineering, Advanced Heat Transfer and Quality Engineering and Management in BTech Mechanical Engineering</li> </ul> <p><b><u>M.Tech.</u></b></p> <ul style="list-style-type: none"> <li>• Revision in the Teaching and Examination Scheme of M. Tech. (Computer Science and Engineering/Information and Network Security/Networking Technologies) Semester II was done due to addition of department elective “Approaches and Applications of Deep Learning”.</li> <li>• Revision in the syllabus of “Networked Embedded Systems” of M.Tech. (Networking Technologies) to incorporate recent standards and protocols</li> <li>• Revision in the Teaching and Examination Scheme of M. Tech. (Information and Network Security) along with syllabus due to the replacement of two subjects “Web Security” and “Ethical Hacking” with “Web Security and Vulnerability Assessment” and “Data Structures and Algorithms”</li> <li>• Looking at the need of advanced signal processing in industries, course on VLSI Signal Processing is introduced in M. Tech VLSI semester I, in place of Digital Signal Processing</li> </ul> <p><b><u>MCA</u></b></p> <ul style="list-style-type: none"> <li>• At Semester I replacement of “Internet and Web Technology” is done with subject “Web Technology”</li> <li>• Addition of two new electives “Machine Learning and Applications” and “Big Data Analytics”</li> </ul>
	<b>Institute of Science</b>	<ul style="list-style-type: none"> <li>• Revision in course on Basic Immunology at Semester I, courses on Endocrinology and Biochemical toxicology at Semester III</li> </ul>
	<b>Institute of Pharmacy</b>	<ul style="list-style-type: none"> <li>• B. Pharm Semester III and IV syllabus, teaching and examination scheme is revised as per the guideline of Pharmacy Council of India (PCI)</li> <li>• M. Pharm complete curriculum along with syllabus teaching and examination scheme is revised as per the guideline of Pharmacy Council of India (PCI)</li> </ul>
	<b>Institute of Management</b>	<ul style="list-style-type: none"> <li>• In Business Analytics new specialization is approved for MBA(FT)</li> <li>• Course on Data Analysis in BBA-MBA, IT Infrastructure &amp; Process Management in MBA(FT), Behavioural Economics in MBA(FT) and Economics of Innovation &amp; Entrepreneurship in MBA(FB&amp;E) were introduced</li> <li>• Course on Taxation in BBA-MBA, Indirect Taxation in MBA(FT) &amp; BBA-MBA, Management of Direct &amp; Indirect Taxes in MBA(FT) &amp; BBA-MBA, Indirect Taxes in MBA(FB&amp;E), Business Tax Planning in MBA(FB&amp;E), Management Information Systems in MBA(FT), Business Information Systems in MBA(FB&amp;E) were revised/updated, E-Commerce: Opportunities &amp; Challenges in MBA(FT), Cyber Security in MBA(FT), Client Server Application Management in MBA(FT) &amp; MBA(FB&amp;E),</li> </ul>

		Business Intelligence in MBA(FT) & MBA(FB&E), E-Business Management in MBA(FT) & MBA(FB&E), Software Project Management in MBA(FT) & MBA(FB&E), Security & Control of Information Systems in MBA(FT) & MBA(FB&E), Business Process Re-engineering in MBA(FT) & MBA(FB&E), Telecommunication Management in MBA(FT) & MBA(FB&E), Information Technology Strategy for Businesses in MBA(FT) & MBA(FB&E).
	<b>Institute of Law</b>	<ul style="list-style-type: none"> <li>• A supplementary course on Skill Labs has been introduced in Semester - I. There will be three such skill labs courses in the five year period.</li> <li>• Professional ethics as a course is introduced in Semester – II.</li> <li>• The credit of Jurisprudence course has been increased from five credits to six credits.</li> <li>• All courses of Semester – VII and IX have been revamped.</li> <li>• Two comprehensive courses in Labour Laws are introduced.</li> <li>• Taxation Law, which had two courses previously, has been revamped; in the new structure one course on Taxation Law has been adopted.</li> <li>• General Honors has been introduced.</li> </ul>
	<b>1.5</b>	<p><b>Any new Department/Centre introduced during the year. If yes, give details.</b></p> <ul style="list-style-type: none"> <li>• Student intake of BTech in Computer Engineering at Institute of Technology is increased from 120 to 240</li> <li>• Computer Engineering department at Institute of Technology is renamed as Computer Science and Engineering</li> <li>• Legal incubation Clinic has been established at Institute of Law</li> </ul>

## CRITERION – II

<b>2</b>	<b>Teaching, Learning and Evaluation:</b>									
<b>2.1</b>	<b>Total No. of Permanent Faculty:</b>									
	<b>Sanctioned Posts</b>		<b>Filed Posts</b>							
	<b>Total</b>	<b>Total</b>	<b>Assistant Professors</b>		<b>Associate Professors</b>		<b>Professors</b>		<b>Others</b>	
	477	364	241		65**		44*		1#+6\$+7 &	
	* Including Prof. U. A. Patel and Prof. P. K. Chugan									
	** 12 Assistant Prof of AGP 8000/- are counted as Associate Professor									
	# Professor Emeritus, \$ Adjunct Professor & Adhoc Assistant Professor									
<b>2.2</b>	<b>No. of permanent faculty with Ph.D.</b> <span style="border: 1px solid black; padding: 2px 10px;">167</span>									
<b>2.3</b>	<b>No. of Faculty Positions Recruited (R) and Vacated (V) during the Year:</b>									
	<b>Assistant Professors</b>		<b>Associate Professors</b>		<b>Professors</b>		<b>Others</b>		<b>Total</b>	
	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>	<b>R</b>	<b>V</b>
	33	33	3	3	2	3	1#, 2\$, 16&	2\$, 16&	57	57

	# Professor Emeritus, \$ Adjunct Professor & Adhoc Assistant Professor Note: V is the number of faculty positions vacated during the assessment period.																	
2.4	No. of Guest Faculty during July 1, 2017 to June 30, 2018:	313																
	No. of Visiting Faculty during July 1, 2017 to June 30, 2018:	143																
	No. of Temporary Faculty during July 1, 2017 to June 30, 2018:	8																
2.5	<b>Faculty Participation in Conferences and Symposiums during July 1, 2017 to June 30, 2018:</b>																	
	<table border="1"> <thead> <tr> <th>No. of Faculty</th> <th>International Level</th> <th>National Level</th> <th>State Level</th> </tr> </thead> <tbody> <tr> <td>Attended Seminars/ Workshops</td> <td>41</td> <td>66</td> <td>7</td> </tr> <tr> <td>Presented papers</td> <td>135</td> <td>55</td> <td>-</td> </tr> <tr> <td>Resource Persons</td> <td>31</td> <td>58</td> <td>60</td> </tr> </tbody> </table>	No. of Faculty	International Level	National Level	State Level	Attended Seminars/ Workshops	41	66	7	Presented papers	135	55	-	Resource Persons	31	58	60	
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Resource Persons	31	58	60															
2.6	<p><b><u>Innovative Processes adopted by the Institution in Teaching and Learning: Institute of Technology</u></b></p> <ul style="list-style-type: none"> <li>• An innovative poster preparation, One-line summary and Concept map were given as on the spot task to the 1st year students for Chemistry subject.</li> <li>• Usage of ICT tools like course web-site, blog, Google classroom, Piazza for assignment submission, subject discussion and regular updates.</li> <li>• Regular Site /Industrial visits by students during the semester for strengthening the concepts learnt in the class.</li> <li>• Students are involved in ongoing major and minor research projects undertaken by the faculty members.</li> <li>• Preparing assignment based on Practical Aspects.</li> <li>• Use of techniques like Flipped Classroom, group based activities, Blended Learning, Think-Pair-Share</li> <li>• Tools such as Google Forms, Flubaroo, Socrative were used by some faculty members to assess students learning and classroom assessment.</li> <li>• Slow learners are counselled and remedial classes are arranged for them. Extra assignments and questions were given to slow learners for practice purpose.</li> <li>• Fast learners are asked to solve challenging assignments for which they are required to explore reference books or online resources. They are encouraged to join MOOC courses.</li> <li>• Video demonstration on laboratory experiments</li> <li>• NPTEL video lectures and MOOC courses are shown to the students on regular basis.</li> <li>• Regular expert lectures were arranged for the students to make them industry ready professionals.</li> <li>• Mini projects were given in almost all the subjects to strengthen the outcome based learning.</li> <li>• Implementation of outcome based education, Project based learning, audit and special audit courses.</li> <li>• Consistent and regular continuous assessment of class and laboratory work.</li> <li>• Students were motivated to strengthen their coding skills using several exercises and inspired to incorporate plagiarism ethics.</li> </ul>																	

- Open book examinations were arranged for few of the M.Tech. Courses.
- Preparation of subject related YouTube videos and same were shared with students.

#### **Institute of Pharmacy**

- Usage of ICT Tools like Padlet, Google classroom and EDMODO as a part of teaching learning methodology
- Faculty conducted debate and used case study for teaching B. Pharm Semester VII students for the course of Fundamentals of Toxicology.
- Group activity to increase class participation.
- Open book examination was conducted for students of B. Pharm. Sem VII for the course of Clinical Pharmacy.

#### **Institute of Science**

- Cooperative and Collaborative teaching were strengthened.

#### **Institute of Management**

- Outcome Based Education which was introduced in the previous years in various programmes completed one more cycle.
- The Institute introduced a provision of International Immersion in Summer Internships for MBA (FT) and BBA-MBA (Integrated) Programme. Students have an option to go for International Immersion for duration of 5-7 weeks abroad following by 2-3 weeks for preparing the internship/immersion report as an alternative to the domestic Summer Internship. The International Immersion can also be done by undergoing a course in foreign country for the same duration.
- Auction based choice of electives introduced in MBA(FT) programme for choosing general electives and specialization electives

#### **Institute of Law**

- Field based study undertaken in the course, Community and Applied Social Psychology, taught in Semester – II. Jamiyatpura village was taken as a sample for studying various concepts of society, kinship and psychology.
- In courses on Tort law, tours were organized to Consumer Education and Research Centre (CERC, Ahmedabad) to understand legal aspects of consumer rights and education.
- In course on Environment Law, Campus Green Audit was conducted.
- In the course on Human Rights Law, customized evaluation method was introduced; wherein Video Making, Law Toons and Poster Making was administered.
- In Political Science course, students made posters, models of justice delivery mechanism and miniature representations of society which were exhibited at the end of the semester.

#### **Institute of Architecture**

- ‘Learning to build and building to Learn’ and studio based pedagogy adopted
- Courses aimed towards developing the major skills required in the field which will prepare them directly for the expertise required during their internship and further practice

	<ul style="list-style-type: none"> <li>• Practical Demonstration of Theoretical Concepts</li> <li>• Teaching and learning based on case studies and working model preparation</li> <li>• Use of videos</li> <li>• Use of ICT Tools for Teaching and Learning.</li> <li>• Field visits to develop better understanding</li> <li>• Exposure to stalwarts in the field by way of attending lectures and student-expert discussion through student work exhibits</li> <li>• Project Based Learning in all courses</li> </ul>																									
<b>2.7</b>	<b>Total No. of Actual Teaching Days during this Academic Year:</b>  <p style="text-align: center;"><b>200</b></p>																									
<b>2.8</b>	<b>Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions):</b> <ul style="list-style-type: none"> <li>• Online multiple choice examinations using ICT Tools like MOODLE, Google Classroom etc. are conducted</li> <li>• Open book/Open web examination</li> <li>• Almost 60% of the grading is under the head of Continuous Evaluation (CE) component, which includes Term Assignments, Class Tests, Quizzes, Laboratory Practical Work, etc.</li> <li>• Assessed answer sheets of all the examinations are shown to the students.</li> <li>• Question papers are reviewed for their quality</li> <li>• Examination reform policy and UFM policy are designed and implemented</li> <li>• Turnitin software is used to check plagiarism in student assignments</li> </ul>																									
<b>2.9</b>	<b>No. of Faculty Members involved in Curriculum Restructuring / Revision / Syllabus Development as Member of Board of Study / Faculty / Curriculum Development Workshop:</b>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Board of Studies / Area Committees</th> <th>Faculty</th> <th>Curriculum Development Workshops</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">97</td> <td style="text-align: center;">105</td> <td style="text-align: center;">221</td> </tr> </tbody> </table> <p>Note: The figure shows involvement of internal faculty members only.</p>	Board of Studies / Area Committees	Faculty	Curriculum Development Workshops	97	105	221																			
Board of Studies / Area Committees	Faculty	Curriculum Development Workshops																								
97	105	221																								
<b>2.10</b>	<b>Average Percentage of Attendance of Students:</b>  <p style="text-align: center;"><b>85%</b></p>																									
<b>2.11</b>	<b>Course/Programme wise Distribution of Pass Percentage :</b>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Title of the Programme</th> <th rowspan="2">Total No. of Students Appeared</th> <th rowspan="2">Total No. of Passed</th> <th colspan="4">Out of total appeared Division</th> </tr> <tr> <th>Distinction (%)</th> <th>I (%)</th> <th>II (%)</th> <th>III (%)</th> </tr> </thead> <tbody> <tr> <td>B. Tech. in Civil Engineering</td> <td style="text-align: center;">132</td> <td style="text-align: center;">132</td> <td style="text-align: center;">47.73</td> <td style="text-align: center;">43.18</td> <td style="text-align: center;">9.09</td> <td style="text-align: center;">0.00</td> </tr> <tr> <td>B. Tech. in</td> <td style="text-align: center;">77</td> <td style="text-align: center;">76</td> <td style="text-align: center;">51.95</td> <td style="text-align: center;">33.77</td> <td style="text-align: center;">12.99</td> <td style="text-align: center;">0.00</td> </tr> </tbody> </table>	Title of the Programme	Total No. of Students Appeared	Total No. of Passed	Out of total appeared Division				Distinction (%)	I (%)	II (%)	III (%)	B. Tech. in Civil Engineering	132	132	47.73	43.18	9.09	0.00	B. Tech. in	77	76	51.95	33.77	12.99	0.00
Title of the Programme	Total No. of Students Appeared				Total No. of Passed	Out of total appeared Division																				
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B. Tech. in Civil Engineering	132	132	47.73	43.18	9.09	0.00																				
B. Tech. in	77	76	51.95	33.77	12.99	0.00																				

Chemical Engineering							
B. Tech. in Mechanical Engineering	158	158	57.59	35.44	6.96	0.00	
B. Tech. in Electrical Engineering	138	138	59.42	34.78	5.80	0.00	
B. Tech. in Instrumentation and Control Engineering	72	71	51.39	45.83	1.39	0.00	
B. Tech. in Electronics and Communication Engineering	153	152	56.86	37.91	4.58	0.00	
B. Tech. in Computer Engineering	155	155	66.45	26.45	7.10	0.00	
B. Tech. in Information Technology	79	78	51.90	30.38	16.46	0.00	
B. Pharm.	91	91	63.74	34.07	2.20	0.00	
B.A. LL.B. (Hons.)	102	101	68.63	30.39	0.00	0.00	
B.Com. LL.B.(Hons.)	56	56	57.14	41.07	1.79	0.00	
B.B.A. LL.B.(Hons.)	54	54	74.07	25.93	0.00	0.00	
MCA	63	59	73.02	20.63	0.00	0.00	

  

Title of the Programme	Total No. of Students Appeared	Total No. of Passed	Out of total appeared Division			
			Distinction	I (%)	II (%)	III (%)
M. Tech in Civil Engineering (Computer Aided Structural Analysis and Design)	30	30	76.67	23.33	0.00	0.00
M. Tech in Chemical Engineering (Environmental Process Design)	8	8	50.00	37.50	12.50	0.00
M. Tech in Mechanical Engineering (CAD / CAM)	29	29	82.76	17.24	0.00	0.00
M. Tech in Mechanical Engineering (Design Engineering)	18	18	83.33	16.67	0.00	0.00
M. Tech in Mechanical Engineering (Thermal Engineering)	28	27	96.43	0.00	0.00	0.00
M. Tech in Electrical Engineering (Electrical Power Systems)	21	21	71.43	28.57	0.00	0.00
M. Tech in Electrical Engineering (Power Electronics, Machines and	19	19	63.16	36.84	0.00	0.00

Drives)																																		
M. Tech in Instrumentation and Control Engineering (Control and Automation)	15	15	80.00	20.00	0.00	0.00																												
M. Tech in Electronics and Communication Engineering (Communication Engineering)	14	14	64.29	35.71	0.00	0.00																												
M. Tech in Electronics and Communication Engineering (Embedded System)	28	27	96.43	0.00	0.00	0.00																												
M. Tech in Electronics and Communication Engineering (VLSI Design) -11	28	28	92.86	7.14	0.00	0.00																												
M. Tech in Computer Science and Engineering	26	26	88.46	11.54	0.00	0.00																												
M. Tech in Computer Science and Engineering (Information and Network Security)	24	24	79.17	20.83	0.00	0.00																												
M. Tech in Computer Science and Engineering (Networking Technologies)	20	20	80.00	20.00	0.00	0.00																												
M. Pharm. - Clinical Pharmacy	9	9	77.78	22.22	0.00	0.00																												
M. Pharm. - Pharmaceutics	16	16	75.00	25.00	0.00	0.00																												
M. Pharm. - Pharmaceutical Chemistry	4	4	100.00	0.00	0.00	0.00																												
M. Pharm. - Pharmacology	11	11	54.55	45.45	0.00	0.00																												
M. Pharm. - Regulatory Affairs	15	15	93.33	6.67	0.00	0.00																												
M.Sc. Biochemistry	23	23	65.22	34.78	0.00	0.00																												
M.Sc. Biotechnology	35	35	77.14	22.86	0.00	0.00																												
M.Sc. Microbiology	25	25	88.00	12.00	0.00	0.00																												
LL.M. - Criminal and Security Law	12	11	0.00	91.67	0.00	0.00																												
LL.M. - Constitutional and Administrative Law	7	5	28.57	42.86	0.00	0.00																												
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2.12	<p><b>How does IQAC Contribute / Monitor / Evaluate the Teaching &amp; Learning Processes :</b></p> <ul style="list-style-type: none"> <li>• Internal Quality Assurance Cell (IQAC) works to build and ensure a quality culture at the institutional/university level. The IQAC committee meets regularly and plans, guides and monitors all teaching-learning activities of the constituent institutes of the University.</li> <li>• The IQAC plays an important role to conduct Academic Audit at three levels, namely (i) Audit at the personal level, where the senior professors and the HoDs constantly audit the classroom teaching of the faculty members, (ii) Audit at the institutions level where by an independent committee conducts the overall audit of each departments / areas in academic, research, extension and related matters, and (iii) Audit by the University level committee for overall assessment of the different academic, research, extension and related aspects of the constituent institutions.</li> <li>• IQAC regularly takes feedback from students, parents, alumni, recruiters and the other stake holders, analyses it to take necessary actions.</li> <li>• Implementation and adherence of various teaching, learning and research related policies introduced by the University.</li> <li>• Organizing value added seminars/workshops/expert talks/quality enhancement forums for the faculty members and staff.</li> <li>• Introducing modern pedagogy techniques to the faculty members.</li> <li>• Carries out two academic reviews to monitor course conduct and delivery during a semester</li> <li>• Reviews quality of question paper</li> <li>• Monitors the student mentoring process</li> </ul>																						
2.13	<p><b>Initiatives undertaken Towards Faculty Development:</b></p> <table border="1" data-bbox="509 1203 1312 1619"> <thead> <tr> <th>Faculty / Staff Development Programmes</th> <th>Number of faculty Benefitted during July 1, 2017 to June 30, 2018</th> </tr> </thead> <tbody> <tr> <td>Refresher Courses</td> <td>85</td> </tr> <tr> <td>UGC – Faculty Improvement Programme</td> <td>2</td> </tr> <tr> <td>HRD Programmes</td> <td>2</td> </tr> <tr> <td>Orientation Programmes</td> <td>45</td> </tr> <tr> <td>Faculty Exchange Programme</td> <td>2</td> </tr> <tr> <td>Staff Training conducted by the University</td> <td>20</td> </tr> <tr> <td>Staff Training conducted by other institutions</td> <td>13</td> </tr> <tr> <td>Summer / Winter schools, Workshops, etc.</td> <td>177</td> </tr> <tr> <td>Industrial Training</td> <td>14</td> </tr> <tr> <td>Others</td> <td>69</td> </tr> </tbody> </table>	Faculty / Staff Development Programmes	Number of faculty Benefitted during July 1, 2017 to June 30, 2018	Refresher Courses	85	UGC – Faculty Improvement Programme	2	HRD Programmes	2	Orientation Programmes	45	Faculty Exchange Programme	2	Staff Training conducted by the University	20	Staff Training conducted by other institutions	13	Summer / Winter schools, Workshops, etc.	177	Industrial Training	14	Others	69
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2.14	<p><b>Details of Administrative and Technical Staff:</b></p> <table border="1" data-bbox="448 1688 1373 1885"> <thead> <tr> <th>Category</th> <th>Number of Permanent Employees</th> <th>Number of Vacant Positions</th> <th>Number of Permanent positions filled during the Year</th> <th>Number of Positions filled on Contractual / Temporarily during the Year</th> </tr> </thead> <tbody> <tr> <td>Administrative Staff</td> <td>102</td> <td>51</td> <td>06</td> <td>29</td> </tr> </tbody> </table>	Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent positions filled during the Year	Number of Positions filled on Contractual / Temporarily during the Year	Administrative Staff	102	51	06	29												
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Administrative Staff	102	51	06	29																			



		Technical Staff	108	34	01	17
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**CRITERION – III**

<b>3.</b>	<b>Research, Consultancy and Extension:</b>																										
<b>3.1</b>	<p><b>Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution:</b></p> <p>The IQAC has been instrumental in promoting the research climate in the institutes in the following ways:</p> <ul style="list-style-type: none"> <li>• Design and implementation of University Research Policy.</li> <li>• Organizing ten-week Research Orientation Programme, workshops/seminars on IPR issues, Research Paper / Proposal writing, research presentation, paper writing clinics using ICT based research tools etc.</li> <li>• Encouraging faculty members to submit project proposals to various funding agencies.</li> <li>• Faculty awards for outstanding contribution in research.</li> <li>• Funding for major and minor research projects.</li> <li>• Preparation of the Annual Research Report.</li> <li>• Preparation and implementation of policy to prevent plagiarism and carry out good practices for academic honesty.</li> <li>• Discussion on possible areas of research at the inter-department and inter-institute level on regular interval.</li> <li>• Planning to setup central instrumentation centre for sharing research related equipment among the institutes/departments</li> <li>• Strict adherence to UGC Performance Based Appraisal System (PBAS), Category – 3 (Research and Academic Contribution).</li> <li>• Setting up of industry sponsored laboratories</li> <li>• National and international travel and registration grants for attending conferences/seminars/workshops</li> <li>• Administrative/Financial support to faculty members and students for patent filing</li> <li>• Formation of Department/Institute/University level research committee to strengthen research activities and align it with the teaching learning process.</li> </ul>																										
<b>3.2</b>	<p><b>Details regarding Major (Externally Funded) Projects:</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td style="text-align: center;">10</td> <td style="text-align: center;">35</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td style="text-align: center;">189.840</td> <td style="text-align: center;">848.598</td> <td style="text-align: center;">38.11</td> </tr> </tbody> </table> <p><b>Details regarding Major (Nirma University Funded) Projects:</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td style="text-align: center;">-</td> <td style="text-align: center;">3</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td style="text-align: center;">-</td> <td style="text-align: center;">85.83</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>				Completed	Ongoing	Sanctioned	Number	10	35	1	Outlay In ₹ in Lakhs	189.840	848.598	38.11		Completed	Ongoing	Sanctioned	Number	-	3	-	Outlay In ₹ in Lakhs	-	85.83	-
	Completed	Ongoing	Sanctioned																								
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3.3	<b>Details regarding Minor (Externally Funded) Projects:</b> <table border="1" data-bbox="561 254 1305 359"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td>8</td> <td>9</td> <td>-</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td>35.33</td> <td>24.60</td> <td>-</td> </tr> </tbody> </table> <b>Details regarding Minor (Nirma University Funded) Projects:</b> <table border="1" data-bbox="561 459 1305 564"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td>27</td> <td>15</td> <td>-</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td>22.72</td> <td>13.49</td> <td>-</td> </tr> </tbody> </table>							Completed	Ongoing	Sanctioned	Number	8	9	-	Outlay In ₹ in Lakhs	35.33	24.60	-		Completed	Ongoing	Sanctioned	Number	27	15	-	Outlay In ₹ in Lakhs	22.72	13.49	-
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3.4	<b>Details on Research Publications:</b> <table border="1" data-bbox="553 646 1312 821"> <thead> <tr> <th></th> <th>International</th> <th>National</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>Peer Review Journals</td> <td>126</td> <td>16</td> <td>0</td> </tr> <tr> <td>Non-Peer Review Journals</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>e-Journals</td> <td>7</td> <td>0</td> <td>0</td> </tr> <tr> <td>Conference Proceedings</td> <td>162</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Details about faculty publications is in Annexure 6</p>							International	National	Others	Peer Review Journals	126	16	0	Non-Peer Review Journals	0	0	0	e-Journals	7	0	0	Conference Proceedings	162	0	0				
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3.5	<b>Details on Impact Factor of Publications:</b> <table border="1" data-bbox="440 888 1421 1146"> <thead> <tr> <th>Impact Factor Range</th> <th>Impact Factor Average</th> <th>h-index</th> </tr> </thead> <tbody> <tr> <td>It varies in the range of 0.14 to 9.122.</td> <td>0.230706 # # In calculating the average impact factor, only those papers of international journals are considered for which valid impact factor is available.</td> <td>Maximum = 14 Minimum = 1</td> </tr> </tbody> </table> <p>Details of latest value of faculty h-index is in Annexure 7</p>						Impact Factor Range	Impact Factor Average	h-index	It varies in the range of 0.14 to 9.122.	0.230706 # # In calculating the average impact factor, only those papers of international journals are considered for which valid impact factor is available.	Maximum = 14 Minimum = 1																		
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3.6	<b>Research Funds Sanctioned and received from Various Funding Agencies, Industry and Other Organisations:</b>  <b>Summary of Total Grant Received During the Financial Year 2017-18 (July 01, 2017 to June 31, 2018)</b> <table border="1" data-bbox="570 1388 1295 1661"> <thead> <tr> <th>Nature of the Project</th> <th>Total Funding Received during the Year (in ₹)</th> </tr> </thead> <tbody> <tr> <td>Externally funded Major /Minor Projects</td> <td>₹ 10,98,36,810</td> </tr> <tr> <td>Industry Sponsored Projects</td> <td>-</td> </tr> <tr> <td>Major /Minor Projects Sponsored by Nirma University</td> <td>₹ 1,22,04,300</td> </tr> <tr> <td><b>Total</b></td> <td><b>₹ 12,20,41,110</b></td> </tr> </tbody> </table> <p>Details of all the projects can be found in Annexure-2, 3, 4 and 5.</p>						Nature of the Project	Total Funding Received during the Year (in ₹)	Externally funded Major /Minor Projects	₹ 10,98,36,810	Industry Sponsored Projects	-	Major /Minor Projects Sponsored by Nirma University	₹ 1,22,04,300	<b>Total</b>	<b>₹ 12,20,41,110</b>														
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3.7	<b>No. of Books Published:</b> <table border="1" data-bbox="440 1755 1421 1814"> <tbody> <tr> <td>With ISBN No</td> <td>22</td> <td>Without ISBN No.</td> <td>02</td> <td>Chapters in Edited Books</td> <td>59</td> </tr> </tbody> </table> <p>Details of book published by faculty members is in Annexure 8</p>						With ISBN No	22	Without ISBN No.	02	Chapters in Edited Books	59																		
With ISBN No	22	Without ISBN No.	02	Chapters in Edited Books	59																									
3.8	<b>No. of University Departments receiving Funds from:</b> <table border="1" data-bbox="440 1881 1421 1908"> <tbody> <tr> <td>UGC-SAP</td> <td colspan="5">Being a statutory private University, we are not</td> </tr> </tbody> </table>						UGC-SAP	Being a statutory private University, we are not																						
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	CAS	covered under Section 12 (B) of the UGC Act and hence not eligible for such funding from UGC.																						
	DPE																							
	DST-FIST	Two																						
	DBT Scheme/funds	Faculty members are receiving funds from DST and DBT for their research projects.																						
<b>3.9</b>	<b>For Colleges:</b>																							
	Autonomy	Not Applicable																						
	CPE	Not Applicable																						
	DBT Star Scheme	Not Applicable																						
	INSPIRE	Not Applicable																						
	CE	Not Applicable																						
	Any Other (specify)	Not Applicable																						
<b>3.10</b>	<b>Revenue generated through Consultancy:</b>																							
	During April 01, 2017 to March 31, 2018					₹ 7,791,558/=																		
<b>3.11</b>	<b>No. of Conferences Organized by the Institution during July 1, 2017 to June 30, 2018:</b>																							
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Level	International	National	State	University	Institute																			
Number	04	07	05	01	00																			
Sponsoring Agencies	<ul style="list-style-type: none"> <li>• Nirma University</li> <li>• GUJCOST</li> <li>• Cognizant</li> <li>• Mitsubishi Electric India Pvt. Ltd.</li> <li>• J.K. Lakshmi Cement Ltd.</li> <li>• Nirma Shudh Salt</li> <li>• Inspiron Engineering Pvt. Ltd.</li> <li>• Techniks Infotech Pvt. Ltd.</li> <li>• Blossom Inc.</li> <li>• ASQ</li> <li>• Indian Oil Corporation</li> <li>• Department of Science and Technology</li> <li>• GSBTM, Gandhinagar</li> <li>• ICMR, New Delhi</li> <li>• Indian Immunology Society, New Delhi</li> </ul>																							
<b>3.12</b>	No. of Faculty served as Experts, Chairpersons or Resource Persons during July 1, 2017 to June 30, 2018:					<b>179</b>																		
<b>3.13</b>	No. of Collaborations:																							
	International	<b>14</b>	National	<b>23</b>	Any Other	<b>-</b>																		
<b>3.14</b>	No. of Linkages created during July 1, 2017 to June 30, 2018:					<b>389</b>																		
<b>3.15</b>	<b>Total Budget for Research for Current Year in Lakhs :</b>																							
	From Funding Agencies	From Management of University / Institute			Total																			
	₹ 246.08	₹ 807.59			₹ 1053.67																			

<b>3.16</b>	No. of Patents Filed during July 1, 2017 to June 30, 2018:							03
	No. of Patents Published during July 1, 2017 to June 30, 2018:							04
	No. of Patents Granted during July 1, 2017 to June 30, 2018:							-
<b>3.17</b>	<b>No. of Research Awards / Recognitions received by Faculty and Research Fellows of the University during July 1, 2017 to June 30, 2018:</b>							
	Total	International	National	State	University	District	Institute	
	35	11	23	01	00	00	00	
<b>3.18</b>	<b>No. of Faculty from the Institution who became Ph. D. Guides during July 1, 2017 to June 30, 2018:</b>							
	<b>14</b>							
	<b>Students Registered under the said Ph. D. Guides:</b>							
	<b>06</b>							
<b>3.19</b>	<b>No. of Ph.D. Awarded to the Faculty from the Institution:</b>							
	<b>39</b>							
<b>3.20</b>	No. of Ph.D. Research Scholars receiving the Fellowships from NU:							33
	No. of Ph.D. Research Scholars receiving the Fellowships from other Agencies:							18
	No. of PG students receiving the Fellowships from other Agencies:							-
	Note: Being a private University, at present it is not covered under Section 12 (B) of the UGC Act. Thus, although there is potentiality, the PG students of the University do not get financial assistance (fellowship) from the government agencies.							
<b>3.21</b>	<b>No. of Students Participated in NSS events:</b>							
	University Level	<b>500</b>	State Level	<b>6</b>	National Level	--	International Level	--
<b>3.22</b>	<b>No. of Students Participated in NCC events:</b>							
	University Level	<b>45</b>	State Level	<b>12</b>	National Level	--	International Level	--
<b>3.23</b>	<b>No. of Awards won in NSS:</b>							
	University Level	<b>6</b>	State Level	--	National Level	--	International Level	--
<b>3.24</b>	<b>No. of Awards Won in NCC:</b>							
	University Level	--	State Level	<b>2</b>	National Level	--	International Level	--
<b>3.25</b>	<b>No. of Extension Activities Organized:</b>							
	University Forum		<b>No. of Extension Activities Organized during July 1, 2016 to June 30, 2017</b>					

	Institute Forum	68
	NCC	1
	NSS	36
	Any Other	10
<b>3.26</b>	<b>Major Activities during the Year in the Sphere of Extension Activities and Institutional Social Responsibility:</b>	
	<b><u>Institute of Technology</u></b>	
	<ul style="list-style-type: none"> <li>• As a part of curriculum, the students worked with various NGOs during July to November 2018.</li> <li>• A seven day NSS residential camp for “Swachhta Abhiyan” was organized at Motipura village during June 4-10, 2018.</li> <li>• Students teach kids in the villages of Miroli, Bakrol Circle, SP ring road in co-ordination with All India Rural Empowerment Program (AIREP) group on every Saturday.</li> <li>• Quiz, drawing competition, talent show, etc., for kids of Miroli village was organized in Nirma University campus by students of Nirma Volun Teaching Movement (NVM) on March 31, 2018.</li> <li>• “Special Olympics” for specially-abled kids was organized in Nirma University campus by NSS unit and YOU-NEED student organization on February, 2018.</li> <li>• Sweet Distribution for housekeeping staff and peons of Nirma University was arranged on the occasion of Diwali.</li> <li>• One-day workshop on “Microcontroller and IoT” was organized for the students of ITI, Saraspur on March 3, 2018.</li> <li>• One-day workshop on “Automobile and Robotics” was organized for the students of sixteen different schools by Mechanical Engineering Student Association (MESA) and SAE on August 26-27, 2017.</li> <li>• Craft activities were organized for kids of slums by Chemical Engineering Students’ Association on October 3, 2017.</li> <li>• One-day workshop on “Electrical Machines” was organized for students of ITI, Chandkheda by Electrical Engineering Department on April 7, 2018</li> <li>• A mosquito-borne disease and Swine Flu awareness session was organized at Apang Manav Mandal, IIM Road by ISA Students’ Chapter on September 10, 2017.</li> </ul>	
	<b><u>Institute of Management</u></b>	
	<ul style="list-style-type: none"> <li>• Saral an initiative was undertaken to educate children of construction labourers</li> <li>• The Institute offers a compulsory field course called ‘Managing Social Projects’. The students were involved in social work with different NGOs.</li> <li>• The students have also conducted several extension activities under the Rotaract Club.</li> </ul>	
	<b><u>Institute of Pharmacy</u></b>	
	<ul style="list-style-type: none"> <li>• Lecture by Ms. Savitri Bahen to Promote social Extension Activities</li> </ul>	

		<p>was organized on July 21, 2017</p> <ul style="list-style-type: none"> <li>• Interaction with primary school children on August 04, 2017</li> <li>• Awareness program on importance of cleanliness was organized on August 18, 2017 and September 08, 2017</li> <li>• Awareness program on Infectious Disease was organized on September 22, 2017</li> <li>• Lecture by Mr. Kamal Kumar Kar, to Promote social Extension Activities was organized on November 3, 2017</li> <li>• Anti-Tobacco Drive campaign was conducted on November 10, 2017.</li> <li>• Awareness program on EVM machine was organized on November 10, 2017</li> <li>• Awareness program on Emergency and First Aid was organized on November 17, 2017</li> <li>• Awareness program on Skin Care was organized on November 24, 2017</li> <li>• Awareness program to Promote social Extension Activities was organized on April 10, 2018</li> <li>• Visit to Biogas plant and Panchayati training centre at Sadra was organized on April 12, 2018</li> <li>• A Cleanliness Drive was organized on April 21, 2018</li> </ul> <p><b><u>Institute of Science</u></b></p> <ul style="list-style-type: none"> <li>• M.Sc. students promoted and donated mosquito nets treated with insecticide to mosquito prone areas in and around Ahmedabad</li> <li>• Institute collected ₹ 6,000/= for helping patient of Hunter syndrome on 12th September 2017</li> <li>• A camp for “Eye Check-up” in coordination with Dr. Tejal Dalal, Tej Eye Center was organized on 16th September 2017</li> <li>• Students visited Hiramani old age home and carried out fun activities with the residents of old age home</li> <li>• Students taught kids of Miroli village basics of hygiene, sanitation, and health in a fun way</li> </ul> <p><b><u>Institute of Law</u></b></p> <ul style="list-style-type: none"> <li>• A legal awareness camp to explain rights of labourers and women under various Indian Laws was organized at Jamiyatpura village, Gandhinagar on February 04, 2018 by the members of Legal Aid Clinic.</li> <li>• Legal Aid Clinic of ILNU organized a Legal Literacy Camp at Jamiyat village, Gandhinagar on March 15, 2018.</li> <li>• Aspiring to contribute to the social literacy of needy and poor through its awareness initiatives, the NSS unit held rally and drama on girl child awareness in Jamiyatpura village, Gandhinagar on Saturday February 24, 2018.</li> <li>• As a part of intervention in Jamiyatpura Village, NSS Unit of ILNU distributed sanitary pads among village women and tried to create awareness of about how to use it and why to use it.</li> <li>• NSS Unit conducted a 7 day residential camp titled “Anubhooti” in Jamiyatpura village during 10th March, 2018 to 16th March, 2018. The aim was to experience and realize the problems being faced by those</li> </ul>
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	residing in rural areas of Gujarat State.
	<p><b><u>Institute of Architecture</u></b></p> <ul style="list-style-type: none"> <li>Seventy nine students undertook extension activities as a part of their curriculum of social work.</li> </ul>

#### CRITERION – IV

<b>4.</b>	<b>Infrastructure and Learning Resources:</b>																																		
<b>4.1</b>	<p><b>Details of increase in Infrastructure Facilities:</b></p> <table border="1"> <thead> <tr> <th>Facilities</th> <th>Existing</th> <th>Newly Created</th> <th>Source of Fund</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Campus Area</td> <td>110 Acre</td> <td>-</td> <td rowspan="7">Nirma University</td> <td>110 Acre</td> </tr> <tr> <td>Class Rooms</td> <td>128</td> <td>15</td> <td>143</td> </tr> <tr> <td>Laboratories</td> <td>53</td> <td>-</td> <td>53</td> </tr> <tr> <td>Studios</td> <td>-</td> <td>06</td> <td>06</td> </tr> <tr> <td>Seminar Halls</td> <td>05</td> <td>-</td> <td>05</td> </tr> <tr> <td>Project Room</td> <td>-</td> <td>01</td> <td>01</td> </tr> <tr> <td>No. of important equipment purchased (<math>\geq</math> 1 lakh) during the current year.</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Facilities	Existing	Newly Created	Source of Fund	Total	Campus Area	110 Acre	-	Nirma University	110 Acre	Class Rooms	128	15	143	Laboratories	53	-	53	Studios	-	06	06	Seminar Halls	05	-	05	Project Room	-	01	01	No. of important equipment purchased ( $\geq$ 1 lakh) during the current year.	-	-	-
Facilities	Existing	Newly Created	Source of Fund	Total																															
Campus Area	110 Acre	-	Nirma University	110 Acre																															
Class Rooms	128	15		143																															
Laboratories	53	-		53																															
Studios	-	06		06																															
Seminar Halls	05	-		05																															
Project Room	-	01		01																															
No. of important equipment purchased ( $\geq$ 1 lakh) during the current year.	-	-		-																															
<b>4.2</b>	<p><b>Computerization of Administration and Library:</b></p> <ul style="list-style-type: none"> <li>The administrative blocks and the libraries of the University are fully computerised.</li> <li>IRP solution, Campus Lynx is used for student admission, attendance monitoring, examination mark sheet, feed for faculty, maintaining student's information etc.</li> <li>Online module for PBAS for faculty members</li> <li>Income tax form for faculty and administrative staff is maintained online</li> <li>Feedback from stake-holders, including students, parents and alumni are obtained online.</li> <li>Office documents, instructions, notifications are circulated through e-mails.</li> <li>Biometric attendance marking system is used by the faculty and staff members</li> <li>Surveillance cameras are installed in the classrooms and laboratories</li> <li>Latest version of KOHA (open source software) to access library resources online is used in all the libraries of the constituent institutes.</li> <li>All libraries have a software module that helps in automatic ordering, receiving and creating of bound volumes of periodicals.</li> <li>Library uses remote access software – RemoteXs to provide remote access of e-journal and e-databases outside campus to the students and faculty members</li> <li>An institutional repository is built using open source software DSpace</li> <li>Video lecture series of NPTEL (National Programme on Technology Enhanced Learning) was added to the collection which can be accessed through the Library Home Page</li> <li>Library uses bar-coding system to computerize bibliographic details of the</li> </ul>																																		

	resources					
<b>4.3</b>	<b>Library Services:</b>					
	<b>Existing (As on June 30, 2017)</b>		<b>Newly Added (During July 01, 2017 to June 30, 2018)</b>		<b>Total</b>	
	<b>No.</b>	<b>Value (in ₹)</b>	<b>No.</b>	<b>Value (in ₹)</b>	<b>No.</b>	<b>Value (in ₹)</b>
Text Books	99455	42,708,023.00	3611	3877890	103066	46,585,913.41
Reference Books	15290	47,699,144.01	573	1939807	15863	49,638,951.33
e-Books	949	285,518.00	165220	0	166169	285,518.00
Journals	636	2,702,459.00	297	960711	933	3,663,170.00
e-Journals	18741	17,650,753.00	1209	14882996	19950	32,533,749.00
Digital Database	22	3,677,179.00	6	1247659	28	4,924,838.00
CD & Video	1973	2,143,681.76	29	108223	2002	2,251,904.76
Others (specify)	3307	3,058,346.23	0	0	3307	3,058,346.23
<b>4.4</b>	<b>Technology Up gradation (overall):</b>					
	<ul style="list-style-type: none"> <li>156 Desktops and 3 laptops were purchased in the current year</li> </ul>					
<b>4.5</b>	<b>Computer, Internet access, Training to Teachers and Students and any other Programme for Technology Up-gradation (Networking, e-Governance etc.):</b>					
	<ul style="list-style-type: none"> <li>Faculty members and supporting staff have access to laptops/computer and Internet facility.</li> <li>Campus is WiFi enabled.</li> <li>Internet Bandwidth of 512 Mbps is available in the campus</li> <li>LAN network was upgraded with a new fibre cable network, installing new networking devices worth ₹ 115 Lakhs.</li> <li>Software modules with SMS services are used for sending important information to Students /Faculty members/Staff/Parents</li> <li>Two days training session on OCTAVE software was conducted.</li> <li>At Institute of Management students of BBA-MBA Programme were offered an enrichment course on Spreadsheet and a Data Analytics Workshop.</li> <li>At Institute of Management workshop on ZOTERO- reference management software was organized for the DPM students.</li> <li>Workshop on Citation Management using Mendeley And Formulation Search Strategy For Searching Database was organized on July 25, 2018 at Institute of Pharmacy</li> <li>Workshop on Discovering of Academic Publication and measuring its impact using SCOPUS was organized on July 25, 2018 at Institute of Pharmacy</li> <li>Workshop on Orientation of electronic resources for final year B.Pharm, M.Pharm and M.Sc. students on August 18, 2017 at Institute of Pharmacy</li> <li>Workshop on Zotero for citation and bibliography management was organized</li> </ul>					



	<p>for M.Pharm students October 12, 2017</p> <ul style="list-style-type: none"> <li>• Institute of Science received a high end computer workstation and five computer terminals from GSBTM, DST of Gujarat. The computer terminals have facilities to connect to the GSBTM server to access various tools and databases of genomics and perform high end analysis</li> <li>• Institute of Architecture organized a orientation program to introduce students to computer lab, computer technology, internet access and free software</li> <li>• Institute of Law organized training programs for usage of google classroom, MIS, development of course websites and blog, learning management system moodle, turnitin software for checking plagiarism</li> </ul>	
<b>4.6</b>	<b>Amount Spent on Maintenance:</b>	
	ICT (Computers):	₹ 3,341,275/=
	Campus Infrastructure and facilities: (Including Buildings and Furniture)	₹ 17,405,049/=
	Equipment:	₹ 1,414,869/=
	Others:	₹ 5,357,136/=
	<b>Total</b>	<b>₹ 27,518,329/=</b>
Note: The financial data is for the period April 01, 2017 to March 31, 2018		

## CRITERION – V

<b>5.</b>	<b>Student Support and Progression:</b>	
<b>5.1</b>	<b>Contribution of IQAC in Enhancing Awareness about Student Support Services:</b>	
	<ul style="list-style-type: none"> <li>• The University has a well-defined student mentoring policy to support the students for sharing their academic and non-academic problems with the faculty mentor. As per the policy, each faculty member is assigned a group of students to advise/guide/help the students for their problems during their duration of study on the campus.</li> <li>• The equal opportunity cell at Institute of Technology looks after maintaining the environment for providing equal opportunity to all disadvantaged groups of students</li> <li>• The Grievances Redressal Cell makes efforts to address the grievances of students</li> <li>• The Anti-ragging Activity Cell prevents any activities related to ragging of the students.</li> <li>• The Anti-Drug Squad at Institute of Technology keeps vigil in curbing the use of banned drugs by the students.</li> <li>• The Women Development Cell at Institute of Technology provides and maintains a dignified, congenial working environment for women students and employees</li> <li>• The Prevention of Sexual Harassment Cell of the University prevents discrimination and sexual harassment against women students and employees. The cell committee deals with cases of discrimination and sexual harassment reported by women student and staff.</li> <li>• The Gender Sensitization Cell at Institute of Technology creates</li> </ul>	

	<p>awareness regarding gender biasing by conducting workshops and awareness programme.</p> <ul style="list-style-type: none"> <li>• The Women in Engineering Cell provides platform to guide the women in engineering related issues through various activities.</li> <li>• At Institute of Management various value added workshops are organized for students.</li> <li>• Students are members of IQAC and are invited to participate in the IQAC meetings</li> <li>• At Institute of Pharmacy Team teaching approach is initiated for students</li> <li>• Activities for enhancement of soft skills and life skill of students were conducted at Institute of Pharmacy.</li> <li>• At Institute of Pharmacy students are provide with written feedback about their performance in examination.</li> <li>• Expert lecture series on “Career avenues in pharmacy” was organized at Institute of Pharmacy.</li> </ul>										
5.2	<p><b>Efforts made by the University for Tracking the Progression:</b></p> <ul style="list-style-type: none"> <li>• The academic progress of the current batch of students is tracked through the continuous evaluation process. The same is discussed during the regular Institute Level IQAC Meetings. The Head of the Institutes and Head of the Departments meet the class representatives on regular intervals and get their feedback. Also, faculty advisor and faculty mentors are allotted for each student, who counsels them from time to time. Continuous monitoring is done for the identified slow learners for each semester.</li> <li>• For tracking the progress of the passed out students, social media (LinkedIn, Facebook)/electronic media is used. AlmaConnect portal is used to connect with the Alumni. Alumni members are contacted from time to time and also invited to attend Alumni Meets.</li> <li>• Students fill exit form at the time of completion of their study program</li> <li>• Campus satisfaction survey for passing out students is carried out. The analysis of the survey is discussed in the IQAC meeting.</li> <li>• The feedback is regularly taken from all the stake holders.</li> <li>• Attendance review of the student is carried out twice in a semester</li> </ul>										
5.3	<p><b>(a) Total Number of Students:</b></p> <table border="1" data-bbox="678 1520 1224 1583"> <thead> <tr> <th>UG</th> <th>PG</th> <th>Ph. D.</th> <th>Others #</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>6176</td> <td>1657</td> <td>340</td> <td>-</td> <td>6176</td> </tr> </tbody> </table> <p><b>(b) No. of Students Outside the State:</b></p> <p style="text-align: center;"><b>2264</b></p> <p><b>(c) No. of International Students:</b></p> <p style="text-align: center;"><b>117</b></p>	UG	PG	Ph. D.	Others #	Total	6176	1657	340	-	6176
UG	PG	Ph. D.	Others #	Total							
6176	1657	340	-	6176							

	<p><b>Men</b></p> <p><b>No.: 5597</b></p> <p><b>%: 68.48</b></p>	<p><b>Women</b></p> <p><b>No.: 2576</b></p> <p><b>%: 31.51</b></p>																																				
	<p><b>Category wise Students:</b></p> <table border="1"> <thead> <tr> <th colspan="6">Last Year (2016-17)*</th> <th colspan="6">This Year (2017-18)*</th> </tr> <tr> <th>General</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>Physically Challenged</th> <th>Total</th> <th>General</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>Physically Challenged</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2195</td> <td>69</td> <td>38</td> <td>293</td> <td>2</td> <td>2597</td> <td>2221</td> <td>72</td> <td>32</td> <td>290</td> <td>3</td> <td>2618</td> </tr> </tbody> </table> <p>*Based on new admission data</p>		Last Year (2016-17)*						This Year (2017-18)*						General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total	2195	69	38	293	2	2597	2221	72	32	290	3	2618
Last Year (2016-17)*						This Year (2017-18)*																																
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total																											
2195	69	38	293	2	2597	2221	72	32	290	3	2618																											
	<p><b>Demand Ratio: 1:11.42<sup>&amp;</sup></b></p> <p><sup>&amp;</sup>Considering the admissions offered by Nirma University</p>	<p><b>Dropout: 6 %</b></p>																																				
<b>5.4</b>	<p><b>Details of student support mechanism for coaching for competitive examinations (If any):</b></p> <ul style="list-style-type: none"> <li>• The Centre for Continuing Education (CCE) conducts coaching sessions to help the students prepare for various competitive exams.</li> <li>• Expert lectures related to competitive exams and career guidance are organized</li> <li>• The Institute of Technology arranges guidance seminars for GATE/GRE through its students' associations</li> <li>• Interaction with alumni who have passed the competitive examinations are invited for guiding the students and experience sharing.</li> <li>• Expert lectures related to clearing the aptitude tests, techniques of carrying out group discussion, facing the interview etc. are organized</li> <li>• Students are motivated to participate in exhibitions to make them aware of the latest trends</li> <li>• At Institute of Technology, Capstone Course in Semester VI covers the topics pertaining to GATE syllabus</li> <li>• Institute of Law has starting Judiciary training classes, competitive exams corner</li> <li>• Institute of Law has initiated career counselling support through CRC and also has profession training modules</li> <li>• The Institute of Pharmacy provides Pre-GPAT coaching and conducts examination for the same for B.Pharm students.</li> </ul>																																					
	<p><b>No. of Student Beneficiaries during July 1, 2017 to June 30, 2018:</b></p>	<p><b>1698</b></p>																																				
<b>5.5</b>	<p><b>No. of Students Qualified in these Examinations:</b></p> <table border="1"> <thead> <tr> <th></th> <th>During July 1, 2017 to June 30, 2018</th> </tr> </thead> <tbody> <tr> <td>NET</td> <td>08</td> </tr> <tr> <td>SET/SLET</td> <td>00</td> </tr> <tr> <td>GATE</td> <td>58</td> </tr> </tbody> </table>			During July 1, 2017 to June 30, 2018	NET	08	SET/SLET	00	GATE	58																												
	During July 1, 2017 to June 30, 2018																																					
NET	08																																					
SET/SLET	00																																					
GATE	58																																					

	<b>GPAT</b>	17
	<b>CAT</b>	276
	<b>PG-CLAT</b>	30
	<b>IAS/IPS</b>	00
	<b>State PSC</b>	02
	<b>UPSC</b>	02
	<b>Any Other</b>	177
<b>5.6</b>	<b>Details of Student Counselling and Career Guidance:</b>	
	<p>The University has a formal mentoring system. Each faculty member is assigned a group of students to advice / guide for the duration of their study on the campus. This ensures participation of all the faculty members in the counselling process. The process also helps to create a healthy rapport building between the faculty and the students.</p> <p>The main purpose of mentoring is to provide opportunity to the students to share their concerns and get moral support and guidance for their overall development.</p> <p>It involves the following:</p> <ul style="list-style-type: none"> <li>• Establishing a relationship of trust.</li> <li>• Listening to personal and career/placement concerns of the students.</li> <li>• Responding to the emotional needs of the students without making them dependent on the mentor.</li> <li>• Building a long lasting personal relationship.</li> <li>• Mentoring also contributes to social development of creating awareness, enhancing knowledge, promoting sociability and a sense of community living and making people conscious of their surroundings and development of organizational effectiveness.</li> <li>• Career counselling and guidance seminars are organized regularly. Alumni are invited to share their experiences with the students and to help them to choose the right career path.</li> <li>• Students who need special counselling are counselled by counsellor officially appointed by the University. IQAC monitors the progress of such students.</li> <li>• Slow learners and fast learners are identified during mentoring process. Special assignments and remedial classes are arranged for slow learners. Fast learners are motivated to take participate in national and international competitions, learn advance concepts through MOOC courses.</li> <li>• Career guidance talks are arranged for the students who are interested in campus placement to promote the awareness of aptitude test, group, interview techniques, etc. before the campus placement drive.</li> </ul> <p>Some other activities related to Student Counselling and Career Guidance carried out during the current year are:</p> <ul style="list-style-type: none"> <li>• At Institute of Technology, M.Tech students were given the preparatory instructions to work upon C/C++ programming, Databases, JAVA, UNIX/LINUX fundamentals, aptitude, etc to make sure that a maximum number of students get final placement.</li> <li>• At Institute of Technology, during campus placement drives, counseling</li> </ul>	

		<p>of students, who failed at different levels of placement process were carried out</p> <ul style="list-style-type: none"> <li>• At Institute of Technology, Post-placement counselling of the students was carried out for completing the joining formalities. Apart from that students were guided on corporate life, culture and how to develop sustainability in a competitive professional environment</li> <li>• At Institute of Pharmacy mentoring committee for PIO and NRI category students interacted with the students to discuss difficulties faced by them</li> <li>• An Open House Career Guidance Seminar on “Career Prospects in Pharmacy” was organised on 11<sup>th</sup> May 2018 for B. Pharm and M. Pharm aspirants by Institute of Pharmacy</li> <li>• The lecture series on the theme of "Newer Career Opportunities in Industry" was organized for PG and PhD students of Institute of Pharmacy on 18<sup>th</sup> November 2017</li> <li>• Institute of Law organized a three-day clinical workshop on ‘Campus to Court Room: Clinical Pedagogy for Practice Ready Professionals’ during March 15 to 17, 2018.</li> <li>• Institute of Law organized a Workshop on Patent Drafting and Specification Drafting for students of Semester VIII during January 8 to 10, 2018 and on March 16 &amp; 17, 2018.</li> <li>• Institute of Law, in collaboration with CADR, Mumbai, organized workshop on Arbitration Training for the students of Semester VIII.</li> <li>• Institute of Law, organized workshop on Mediation Training from January 29 to 31, 2018. Mr. Firdoshali Kassam Karachiwala (Master Trainer, Supreme Court Committee on Mediation) conducted the workshop.</li> <li>• Institute of law organized Expert Panel Discussion on “Contentious Issues under Companies Act, 2013: The Practice &amp; Procedure” on 17th March 2018.</li> <li>• Institute of law organized ‘Wahura Training’ and Student Soft Skills Assessment to understand placement readiness of students. After assessment of students’ communication, reasoning, interview skills and legal acumen, the information was shared with students. Required counselling was given to students so that they are able to prepare better for professional life.</li> </ul>												
		<table border="1"> <tr> <td data-bbox="444 1440 906 1476"><b>No. of Students Benefitted:</b></td> <td data-bbox="906 1440 1448 1476">All students</td> </tr> </table>	<b>No. of Students Benefitted:</b>	All students										
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5.7		<p><b>Details of Campus Placement:</b></p> <table border="1"> <thead> <tr> <th colspan="3" data-bbox="516 1581 1117 1623">On Campus</th> <th data-bbox="1117 1581 1312 1623">Off Campus</th> </tr> <tr> <th data-bbox="516 1623 695 1728">Number of Organizations Visited</th> <th data-bbox="695 1623 906 1728">Number of Students Participated</th> <th data-bbox="906 1623 1117 1728">Number of Students Placed</th> <th data-bbox="1117 1623 1312 1728">Number of Students Placed</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1728 695 1776">303</td> <td data-bbox="695 1728 906 1776">1297</td> <td data-bbox="906 1728 1117 1776">1005</td> <td data-bbox="1117 1728 1312 1776">15</td> </tr> </tbody> </table>	On Campus			Off Campus	Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed	303	1297	1005	15
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303	1297	1005	15											
5.8		<p><b>Details of Gender Sensitization Programmes:</b></p> <ul style="list-style-type: none"> <li>• At Institute of Law, students and faculty members were addressed by gender experts on the subject of Sexual Harassment and the legal and</li> </ul>												

	<p>behavioural aspects.</p> <ul style="list-style-type: none"> <li>• Mel Flagnan, Circuit Course Judge and Adjunct Professor University of Wisconsin, Milwaukee, USA delivered an expert lecture titled ‘Implicit Bias’ in February 2018 at Institute of Law</li> <li>• NSS Students and faculty coordinator conducted awareness program titled ‘Beti Bachao’ in Jamiyatpura village.</li> <li>• A session on ‘Women Empowerment’ by Mr.Sudhirbhai Desai was conducted in the Jamiyatpura village by NSS students in collaboration with District Legal Services Authority</li> <li>• At Institute of Management talk on ‘Gender Sensitization’ by Ms. Sejal Joshi, Institute of Social Action and Research, Ahmedabd was conducted on July, 19, 2017</li> <li>• Another session “Nirmatatva” was conducted by Shri Gauri Sawant, Social activist during inaugural session of “Perspective Richter 10” at Institute of Management</li> <li>• On June 26, 2018, session on Gender Sensitization and Equal Opportunity by faculty members of Institute of Management was conducted during the Induction programme of MBA (Full-Time) students</li> <li>• On June 30, 2018, session on Gender Sensitization and Equal Opportunity by faculty members of Institute of Management was conducted during the Induction programme of MBA (Family Business and Entrepreneurship)</li> <li>• At Institute of Pharmacy on February 19, 2018, , Dr. Niyati Acharya organized a Workshop on “Self-defence for Girl students” for B.Pharm. and M. Pharm Semester II students. Mr Rushiraj Jaiswal, Director and Chief Instructor, Rushiraj Karate kunfu Federation, Ahmedabad conducted the workshop along with his team.</li> <li>• On July 21, 2017, at Institute of Pharmacy, Dr. Niyati Acharya delivered a talk on awareness, objectives and activities of Woman Development Cell during B.Pharm and M.Pharm student Orientation programme.</li> <li>• At Institute of Architecture, workshop for Self defense was organized on March 8, 2018</li> </ul>												
5.9	<p><b>Students Activities</b></p> <p><b>5.9.1</b> <b>No. of Students Participated in Sports, Games and Other Events:</b></p> <table border="1" data-bbox="594 1440 1307 1535"> <tr> <td>University Level</td> <td>1462</td> </tr> <tr> <td>National Level</td> <td>12</td> </tr> <tr> <td>International Level</td> <td>-</td> </tr> </table> <p><b>No. of Students Participated in Cultural Events:</b></p> <table border="1" data-bbox="594 1638 1307 1732"> <tr> <td>University Level</td> <td>749</td> </tr> <tr> <td>National Level</td> <td>-</td> </tr> <tr> <td>International Level</td> <td>-</td> </tr> </table> <p><b>5.9.2</b> <b>No. of Medals / Awards Won by Students in Sports, Games and Other Events:</b></p>	University Level	1462	National Level	12	International Level	-	University Level	749	National Level	-	International Level	-
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	<p><b>Sports:</b></p> <table border="1"> <tr> <td>University Level</td> <td>440</td> </tr> <tr> <td>National Level</td> <td>-</td> </tr> <tr> <td>International Level</td> <td>-</td> </tr> </table> <p><b>Cultural:</b></p> <table border="1"> <tr> <td>State/ University Level</td> <td>6/148</td> </tr> <tr> <td>National Level</td> <td>-</td> </tr> <tr> <td>International Level</td> <td>-</td> </tr> </table>	University Level	440	National Level	-	International Level	-	State/ University Level	6/148	National Level	-	International Level	-				
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<b>5.10</b>	<p><b>Scholarships and Financial Support:</b></p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Number of Students</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Financial support from institution (including Scholarship, Fellowship and Stipend)</td> <td>923</td> <td>₹ 67,759,591/=</td> </tr> <tr> <td>Financial support from government</td> <td>5</td> <td>₹ 1,91,050/=</td> </tr> <tr> <td>Financial support from other sources</td> <td>1</td> <td>₹ 79,000/=</td> </tr> <tr> <td>Number of students who received International / National recognitions including DST-Fellowship, CSIR-Fellowship and UGC Fellowship</td> <td>18</td> <td>₹ 69,28,826/=</td> </tr> </tbody> </table>	Particulars	Number of Students	Amount	Financial support from institution (including Scholarship, Fellowship and Stipend)	923	₹ 67,759,591/=	Financial support from government	5	₹ 1,91,050/=	Financial support from other sources	1	₹ 79,000/=	Number of students who received International / National recognitions including DST-Fellowship, CSIR-Fellowship and UGC Fellowship	18	₹ 69,28,826/=	
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<b>5.11</b>	<p><b>Student Organised / Initiatives:</b></p> <p><b>Fairs:</b></p> <table border="1"> <thead> <tr> <th></th> <th>During July 1, 2017 to June 30, 2018</th> </tr> </thead> <tbody> <tr> <td>State/ University Level</td> <td>22</td> </tr> <tr> <td>National Level</td> <td>13</td> </tr> <tr> <td>International Level</td> <td>-</td> </tr> </tbody> </table> <p><b>Exhibition:</b></p> <table border="1"> <thead> <tr> <th></th> <th>During July 1, 2017 to June 30, 2018</th> </tr> </thead> <tbody> <tr> <td>State/ University Level</td> <td>24</td> </tr> <tr> <td>National Level</td> <td>02</td> </tr> <tr> <td>International Level</td> <td>-</td> </tr> </tbody> </table>		During July 1, 2017 to June 30, 2018	State/ University Level	22	National Level	13	International Level	-		During July 1, 2017 to June 30, 2018	State/ University Level	24	National Level	02	International Level	-
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<b>5.12</b>	<p><b>No. of Social Initiatives Undertaken by the Students:</b></p> <p style="text-align: center;"><b>60</b></p>																
<b>5.13</b>	<p><b>Major Grievances of Students (if any) Redressed:</b></p> <ul style="list-style-type: none"> <li>At Institute of Architecture, student with walking disability has been assured to be given studio on ground floor for easy accessibility.</li> </ul>																

## CRITERION – VI

<b>6.</b>	<b>Governance, Leadership and Management:</b>	
<b>6.1</b>	<b>State the Vision and Mission of the University:</b>	

	<p><b>Vision</b> Shaping a better future for mankind by developing effective and socially responsible individuals and organizations.</p> <p><b>Mission</b> Nirma University emphasizes on all round development of its students. It aims at producing not only good professionals, but also good and worthy citizens of a great country, aiding in its overall progress and development. It endeavours to treat every student as an individual, to recognize their potential and to ensure that they receive the best preparation and training for achieving their career ambitions and life goals.</p>
6.2	<p><b>Does the University has a Management Information System:</b></p> <p>Yes.</p> <ul style="list-style-type: none"> <li>• The Management Information System is used for student admission process, student registration, maintain students personal, academic and attendance records</li> <li>• It is also used to carry out student satisfaction survey, collecting the faculty and course feedback from the students, collecting the student's elective subject choices etc.</li> </ul>
6.3	<p><b>Quality Improvement Strategies Adopted by the University for each of the Following:</b></p> <p><b>6.3.1 Curriculum Development:</b></p> <ul style="list-style-type: none"> <li>• The feedback from recruiters visiting the campus is considered in curriculum development.</li> <li>• The feedback for curriculum is invited from academic experts and peers from well-known Universities, Research Organizations and Industry Professional.</li> <li>• Suggestions for curriculum development from outgoing students, alumni, parents and on-going students is considered at time of curriculum development.</li> <li>• Existing market trends and approaches, advances in field, feedback from various stake holders is considered for curriculum development</li> <li>• At Institute of Technology, Board of Studies (BoS) reviews the syllabus. BoS consist of Head of the Department, professors, two associate professors of the department (in rotation basis), members from industry, research and academia and one alumni member.</li> <li>• At Institute of Pharmacy, an elective course titled "Course of Wheel" at B.Pharm was offered and 5 industrial visits were done during the conduction of the course</li> <li>• At Institute of Architecture and Planning, consideration of enhancing creativity, technical skills and humanitarian traits of students is considered</li> <li>• At Institute of Architecture and Planning a mix of interactive studio-</li> </ul>



	<p>based learning , theory based lectures and skill building workshops is carried out</p> <ul style="list-style-type: none"> <li>• At Institute of Architecture and Planning, field visits to learn from live projects are a part of curriculum</li> </ul> <p><b>6.3.2 Teaching and Learning:</b></p> <ul style="list-style-type: none"> <li>• University has a mechanism of Academic Audit at four levels, namely (i) Audit at the personal level, where the senior professors and the HoDs constantly audit the classroom teaching of the faculty members, (ii) Audit at the institutions level by an independent committee which conducts the overall audit of each department / area in academic, research, extension and related matters, and (iii) Audit by the University level committee for overall assessment of the different academic, research, extension and related aspects of the constituent institutions (iv) Audit by external experts for all the constituent institutes of Nirma University</li> <li>• The University lays abundant importance on student centric teaching. Implementation of learner centric teaching is made feasible by a well-developed system of Outcome Based Education (OBE) from the year 2013.</li> <li>• Formal as well as informal faculty/course feedback system is practiced for monitoring the system of course delivery.</li> <li>• There is an academic review and attendance review system every four weeks during the semester in majority of the institutes.</li> <li>• A number of faculty training programmes are conducted to improve the quality of pedagogy/teaching.</li> <li>• Faculty members are encouraged to use ICT in teaching-learning-evaluation process.</li> <li>• Faculty members and students undergo various MOOCs (Massive Online Open Courses) on regular basis.</li> <li>• Expert lectures by eminent academicians, industries, researchers are organized for the students on regular basis.</li> <li>• Case studies, projects, live models, industrial visits, workshops, seminars are part of teaching-learning process</li> <li>• At Institute of technology a course teacher can invite an eminent academician to conduct a part of his course syllabus</li> <li>• Use of role plays, drama for courses on language learning and ethics and values</li> <li>• At Institute of Pharmacy QR codes are generated for details of pertaining to the operation of certain laboratory equipment</li> </ul> <p><b>6.3.3 Examination and Evaluation:</b></p> <ul style="list-style-type: none"> <li>• The University follows Continuous Evaluation system for student evaluation and thus understands and appreciates the formative assessment of the students.</li> <li>• The University has a very systematic Manual for Conduct of Examinations and carrying out student evaluation.</li> </ul>
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	<ul style="list-style-type: none"> <li>• The students are provided with 'Student Handbook' at the time of joining their programme, which includes all the rules and regulations of examination.</li> <li>• For each subject /course of semester end examination, the Paper Setters submit two sets of the question papers and out of these two sets, the Dean and the Executive Registrar picks up any one and the same is used for the purpose of the respective examination.</li> <li>• In order to deal with the cases of examination malpractice, a separate 'Examination Reforms Committee' is appointed by the Director General.</li> <li>• For smooth and fair conduction of the semester end examinations, along with the senior supervisors, observers are also appointed by the university.</li> <li>• Provision is also made to show the assessed answer books of sessional as well as semester end examinations to the students.</li> <li>• In order to check the quality/language/format of the question papers, all the question papers are reviewed by a separate committee and the reports are presented during the Board of Study Meeting.</li> <li>• Rubrics are prepared for the evaluation of different components of a course.</li> </ul>
	<p><b>6.3.4 Research and Development:</b></p> <ul style="list-style-type: none"> <li>• Research and Development is given importance in the strategic planning.</li> <li>• University lays emphasis to increase research, consultancy and testing in interdisciplinary areas, publishing research work in quality journals having good impact factor.</li> <li>• University has schemes to promote research amongst the UG and PG students which includes funding for working on their ideas (idea lab), providing financial support for attending conference, encouraging students to apply for national/international funding schemes, involving them in funded projects carried out by faculty members, encouraging them to participate in conferences, competitions etc.</li> <li>• University has appointed Language Editor to suggest improvement in the quality of language in the Ph.D. thesis wherever required.</li> <li>• Overall at the University level, Directorate of Research and Innovation (DRI) and Faculty of Doctoral Studies and Research (FDSR) monitors and facilitates research activities.</li> <li>• University has a very systematic 'Research Policy' which provides guidelines for all research related activities.</li> <li>• The University funds minor research projects and funding up 30 Lakhs for major research projects.</li> <li>• The University provides financial support to faculty for attending national / international conferences abroad/within India.</li> <li>• Encouraging faculty members to undertake collaborative / sponsored projects.</li> <li>• The University regularly organizes international/national conferences/expert talks/pedagogy sessions/paper writing</li> </ul>

	<p>clinics/workshops to provide faculty members/students/PhD scholars insight on current research perspectives.</p> <ul style="list-style-type: none"> <li>• Library has e-journals and other latest learning resources to support Ph.D., PG and UG students.</li> <li>• University has introduced a scheme of Awards &amp; Incentives for faculty members to appreciate their outstanding contribution in research.</li> <li>• Intensive Research Orientation programmes are organized on regular basis for the faculty members.</li> <li>• Institute level, Department Level Research Committees and Research Groups are formed to promote the research culture.</li> <li>• Bank of thrust areas for research was prepared by constituent institutes considering national and international trends.</li> <li>• The research activities of the faculty members and PhD scholars are maintained online through ‘Research Log’ and ‘NU Doctoral Programme Information Management System’</li> <li>• TCS has included Nirma University in its TCS Research Scholar Programme. Under the scheme, selected Ph.D. scholar can get monthly stipend, contingency, financial support for attending the conferences, etc. from the TCS.</li> <li>• Directorate of Research and Innovation, Nirma University organized a full-day seminar for all Doctoral Students (Full Time and External), Nirma University on January 20, 2018. The seminar was attended by 109 Doctoral Students of Nirma University.</li> <li>• A two day workshop on, “Intellectual Property-Ideas to Asset” was jointly organized by Directorate of Research and Innovation (DRI), Nirma University and Intellectual Property Protection Organisation Pvt. Ltd., Ahmedabad on February 02-03, 2018.</li> <li>• The Directorate of Research &amp; Innovation (DRI), Nirma University and the Institute for Plasma Research (IPR) jointly organized a three-day meeting of the Project Investigators / Collaborators and the Experts in the field of Plasma, Fusion Science, Fusion Technology and Allied Areas. The meeting was organized at the Nirma University campus during April 26-28, 2018.</li> </ul> <p><b>6.3.5 Library, ICT and Physical Infrastructure / Instrumentation:</b></p> <p><b><u>Library:</u></b></p> <ul style="list-style-type: none"> <li>• Library facility at the University is developed in a way that it meets the needs of 21<sup>st</sup> century learning, teaching, and research.</li> <li>• University has a Library Council as an Advisory Committee at the University level for the purpose of smooth functioning, improvement and coordination amongst all the libraries and the management</li> <li>• Similarly, constituent institutes have Library Committees for smooth functioning and for regularly reviewing the growth of the libraries.</li> <li>• The Library Council and Committees play a vital role in policy decisions related to: (i) Collection, Development and Utilization of the Resources, (iii) Preservation and Archiving of Print &amp; Electronic Resources, and (iv) Library Automation.</li> </ul>
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	<ul style="list-style-type: none"> <li>• Various policies, like Library Material Purchase Policy, Book Bank Policy, Electronic Resource Access Policy, Remote Login Usage Policy and Weeding Out Policy, etc. have been framed and are regularly amended to provide quality services</li> <li>• All the activities related to library are done online through user-friendly web-based based on latest version of open source library software called KOHA.</li> <li>• Remote Access Software – RemoteXs is used to access all e-journal and e-databases inside and outside Nirma University campus</li> <li>• Repository has been built by using open source software called DSpace. Theses, dissertations, faculty publications, and institute publications etc. are archived on DSpace which can be accessed in the campus using the library’s website.</li> <li>• University has subscription of scopus abstract and citation database</li> <li>• At Institute of Technology 1017 library books worth of ₹ 7.63 lakhs were added during 1st July 2017– 30th June 2018 in the library and presently it has a collection of 48,594 books. Library added 214 journals and magazines worth of ₹ 5.93 Lakhs in the areas of Engineering, Science &amp; Technology, English, Mathematics, General Reading, etc.</li> <li>• The Library at Institute of Technology subscribes more than 750 e-journals, IEL Online, ASCE, ASME, Science Direct, ACM Digital and Scopus Database IEL Online, ASCE, ASME, Science Direct, ACM Digital and Scopus Database worth of Rupees 122 Lakhs. Library also subscribed New Online EBSCO ebooks package from April 2018.</li> <li>• To increase the usage of the library by students, faculty members design the assignments that require usage of journals, reference books, periodicals etc.</li> <li>• At Institute of Technology, library organizes activities like storytelling (human library and book launching), lists best reader and library user, review of the books by faculty members, book display sessions on different occasions, TED talks for faculty members, library orientation program for newly admitted students, training session for IEL online for first year M. Tech Students, etc.</li> <li>• At Institute of Technology, library resource centre provides book bank facility to help the needy meritorious students. The book bank has a separate collection of 4, 719 books other than the library books. During 1st July 2017 to 30th June 2018, 407 students availed this facility and borrowed 1,912 books from this collection.</li> <li>• At Institute of Technology, video lecture series of NPTEL (National Programme on Technology Enhanced Learning) was added to the collection which can be accessed through the home page of library web-site.</li> <li>• At Institute of Management, 1166 library books worth of ₹ 16,61,789 were added during 1st July 2017– 30th June 2018. Presently it has a collection of 34255 books. It also added 221 journals and magazines worth of ₹ 11,12,537.</li> <li>• At Institute of Management, more than 12580 e-journals worth of ₹ 51,33,906 from EBSCO Business Source Complete and Academic</li> </ul>
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	<p>Source Complete, Emerald, Oxford University Press, Science Direct, JSTOR. Library has subscribed new database- Frost and Sullivan and CMIE's: Prowess.</p> <ul style="list-style-type: none"> <li>• At Institute of Law, 273 titles and 333 volumes of technical books and 146 titles and 149 volumes of science and humanities were added during 1st July 2017– 30th June 2018. Presently it has a collection of 7416 titles and 9369 volumes technical books and 2028 titles and 2425 volumes of science and humanities books. The library also added 2 print journals, 37 audio/visual materials</li> <li>• At Institute of Pharmacy, 105 library books worth of ₹ 11,38,48.65 were added during 1st July 2017– 30th June 2018. Presently it has a collection of 7395 books.</li> <li>• At Institute of Pharmacy library, 24 reference books worth of ₹ 130267.35 were added to the collection during the period 1st July 2017– 30th June 2018 making the total reach to 1563 books. It also subscribed 39 print periodicals worth Rs. 137091.00, 113 e-journals, 1 Pharmacology review; 23 Bentham Pharmacy Module worth ₹ 2410707.00 during the period said period.</li> <li>• At Institute of Science, during 1st July 2017– 30th June 2018, 57 books worth ₹ 1,32,467.00 were added to the library. Library subscribed 1 online journals worth Rs.1,61,054.00 and 6 print Journals worth Rs. 8850.00 during the said period. Library added Ebsco e-books Academic collection.</li> <li>• At Institute of Science, Library conducts activities like Library orientation to new students, Orientation of electronic resources, book exhibition, training for remote log - in facility, hands on practice of Zotero, Mendeley (a reference management tool) for PhD and PG students, books display on special occasions etc.</li> </ul> <p><b><u>ICT:</u></b></p> <ul style="list-style-type: none"> <li>• University has a comprehensive IT policy regarding all IT infrastructure, service, security and management.</li> <li>• Computing facilities at University include dedicated and high performance servers to meet the growing demands of information management within the campus. The facilities are centrally managed by a dedicated staff.</li> <li>• The University has a large number of licensed software to incorporate the latest tools and technologies.</li> <li>• The dedicated fibre optic leased line is upgraded to 512 Mbps</li> <li>• Wi-Fi hotspots enable round the clock Internet connectivity on the campus.</li> <li>• The majority of the classrooms of the University are ICT-enabled with various audio visual facilities, Internet facilities, CCTV cameras etc.</li> <li>• The constituent institutes of the University has to computer centres to provide computational, network infrastructural facilities, printing and internet/intranet services to the faculty, student and staff.</li> <li>• The software for library management KOHA and D-space are upgraded during the current year</li> <li>• Institute of Science has received a high end computer workstation and</li> </ul>
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five computer terminals from GSBTM, DST of Gujarat in the current year. The computer terminals have facilities to connect to the GSBTM server to access various tools and databases of genomics and perform high end analysis

#### **Physical Infrastructure:**

- Since inception, the University had followed a systematic process of planning, creating, maintaining and utilizing its physical infrastructure.
- The University ensures that all the constituent institutes meet with the standards of physical infrastructure prescribed by the respective regulatory bodies, such as AICTE, Pharmacy Council of India, Bar Council of India, Council of Architecture, etc.
- At the University level, there is a Coordination Committee, headed by Director General/Vice President for planning/reviewing the needs of common infrastructure.
- The University has a full-fledged Estate Department that looks for the maintenance of buildings, classrooms, laboratories, lawns, sport fields, etc.
- The University allocates separate budget for the maintenance of infrastructure and facilities. There is a maintenance group within the Estate Department.
- All the constituent Institutes of the University have adequate number of classrooms, laboratories, studios, seminar rooms, auditoriums, library facility, canteen, ladies common rooms, parking and other amenities as per their requirement.
- Classes and the laboratories, seminar room and auditoriums are equipped with audio-visual and Internet facility for effective lecture delivery.
- University has a health centre facility with the qualified non-resident doctor. For emergency needs, 24 X 7 an ambulance facility is made available on the campus.
- The University has excellent sports facilities comprising synthetic grounds for basketball, volleyball, and tennis, large fields for football and cricket, table tennis room in addition to a well-equipped modern gymnasium.
- University has buses plying in different areas of Ahmedabad and Gandhinagar for students, faculty, and staff.
- University has branch of the Kalapur Commercial Co-operative Bank Limited, a scheduled bank with two ATMs is located on the campus

#### **6.3.6 Human Resource Management:**

- The faculty members are promoted to a higher position based on seniority and expertise. Also, there is an attractive Career Advancement Scheme (CAS) for higher scale and promotion.
- Deputation of faculty members for qualification improvement (Ph.D. and PG) programmes to premier national institutes, like IITs and NITs.
- The University regularly organizes various staff development

	<p>programmes, including Induction Training, Orientation Programme, Refresher Courses, etc.</p> <ul style="list-style-type: none"> <li>• The University has introduced a scheme of headship of departments by rotation to inculcate leadership among the faculty members.</li> <li>• The University has taken various measures for attracting and retaining eminent faculty.</li> <li>• The goal of the University is to increase faculty strength at the senior level with good research/industry experience and enhancing the competency of the existing faculty.</li> <li>• Adjunct faculty members are appointed by invitation from institutes of repute.</li> <li>• Time to time, faculty and staff positions are filled up in the department by following the standard procedure of the recruitment.</li> <li>• Faculty members were given promotions under the Career Advancement Scheme (CAS) as per UGC regulation in this regards.</li> <li>• The technical staff members were also promoted under CAS.</li> <li>• Dr. Manjunath Ghate, Director Institute of Pharmacy visited Southwest University, Chongqing, China and worked as visiting professor for a month</li> <li>• At Institute of Law, two faculty members visited foreign Universities for academic purposes.</li> <li>• Administrative decisions involve considerations on gender balance, diversity and academic versatility</li> </ul> <p><b>6.3.7 Faculty and Staff Recruitment:</b></p> <ul style="list-style-type: none"> <li>• The faculty and staff recruitment is taken very seriously and thorough planning is done.</li> <li>• The cadre policy, faculty/staff qualifications and the cadre ratio are maintained as per the statutory norms prescribed by the regulatory bodies.</li> <li>• All regular appointments are done on merits by inviting applications through public advertisements in the national level newspapers / advertisement on the university website.</li> <li>• The University has framed a very structured and systematic selection process. The regular faculty appointment is made by the Director General (NU) on the recommendations of a Selection Committee. There are well-defined norms for constitution of a Selection Committee.</li> <li>• Faculty members are recruited twice in a year or more as required.</li> <li>• Applications for faculty and staff requirement are to be filled online. The process is undertaken by the establishment section of the University.</li> <li>• Written test for the faculty recruitment is conducted online in the campus</li> </ul> <p><b>6.3.8 Industry Interaction / Collaboration:</b></p> <ul style="list-style-type: none"> <li>• The University has an Industry Institute Interaction (III) Cell. The University Head - Corporate Relations is appointed to plan and</li> </ul>
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		<p>coordinate university-industry activities in the constituent institutes of the University. Besides, University Level Advisory Committee has the role to monitor the industry-institution related activities.</p> <ul style="list-style-type: none"> <li>• Each constituent institute of the University has an Industry-Institute Interaction Cell. The function of the Cell is to encourage consultancy, testing, training, placement, internship and other activities.</li> <li>• The University encourages its faculty members to undertake consultancy work from the industry. In fact, there is a systematic policy to undertake any consultancy assignment.</li> <li>• The University has International Relations Office that focuses on collaborating with reputed foreign universities for student and faculty exchange programmes.</li> <li>• Senior faculty members meet the industry officials when they visit for student placements.</li> <li>• At Institute of Technology, faculty members regularly visit industries for student project follow-ups and campus placements. Faculties also undergo the industrial training on regular basis.</li> <li>• During the period of review, at Institute of Technology, the number of companies visited for the placement increased from 125 to 130.</li> <li>• Industry professionals from the leading industries shared their experiences through expert lectures, interactions, workshops, seminars, conferences at the University. Directorate of Research and Innovation (DRI), Nirma University and Tata Consultancy Services (TCS) jointly organized “TCS Research Interaction Day” on March 30, 2018 at the Nirma University Campus.</li> <li>• A two day workshop on, “Intellectual Property-Ideas to Asset” was jointly organized by Directorate of Research and Innovation (DRI), Nirma University and Intellectual Property Protection Organisation Pvt. Ltd., Ahmedabad on February 02-03, 2018. There were sessions on Introduction to Intellectual Property and Patents; Practical aspects of patent filing etc. Some of the sessions were conducted by industry professional.</li> <li>• At Institute of Pharmacy, 28 PG had undertaken M.Pharm project research under guide ship of Industry professional and faculty members from the institute. The major companies where student undertook their projects are Lupin, Sun Pharma, Cipla, Alkem, IPCA, Zydus etc.</li> <li>• Institute of Pharmacy, has collaborated with two reputed organizations viz. Apollo hospitals and Planet Health to provide internship opportunity to UG students during their summer vacation. In summer vacation of current year, 69 students did their internships in Apollo hospitals and 37 students in Planet Health.</li> <li>• During the current year, Institute of Pharmacy has signed agreement with ERIS Lifesciences to carry collaborative research under prime-minister fellowship. Institute has signed agreement with IPR for carrying out joint project under BNRS scheme.</li> <li>• Advocacy division of Competition Commission of India has empaneled Institute of Management for conducting competitive assessment.</li> <li>• Industry representatives/practicing professionals are invited as members of Research Progress Committees of PhD scholars, as adjunct faculty,</li> </ul>
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	visiting faculty, jury members in the teaching-learning process, moot court judgments						
	<p><b>6.3.9 Admission of Students:</b></p> <ul style="list-style-type: none"> <li>• The University has a transparent process for admissions to all the programmes at all its constituent institutes. Each programme is governed by its academic regulations.</li> <li>• For meticulously conducting the various procedures of admissions, an Admission Committee for each institute is constituted.</li> <li>• Further, wide publicity is ensured by placing advertisements in leading national and regional newspapers, university's website, social media, online portal.</li> <li>• Career guidance seminars / open house interactions are conducted to guide the aspirant students</li> <li>• Brochures of the programmes are prepared that consist of eligibility criteria and the process of admissions.</li> <li>• In general, admissions are done using national level entrance tests. When such tests are unavailable, the University conducts its own entrance tests.</li> <li>• The procedure and criteria for admissions to various programmes are displayed on the university's website in advance.</li> <li>• The University also has a mechanism to review its admissions process annually.</li> <li>• The constituent institutes of the University participate in Education Fairs overseas and across India to attract meritorious students.</li> <li>• The entire admission process is online.</li> <li>• Institute of Science has identified three more centres for conducting its multi-centric entrance test in the current academic year</li> </ul>						
<b>6.4</b>	<b>Welfare Schemes for:</b>						
	<table border="1"> <tr> <td>Teaching</td> <td> <ol style="list-style-type: none"> <li>1. Reimbursement of expenses towards tuition fees for the employees' dependent children</li> <li>2. Reimbursement of expenses towards hospitalization</li> <li>3. Reimbursement of expenses towards purchase of books/ magazine/ subscription of journals / professional body membership/ Internet services etc.</li> <li>4. Reimbursement of expenses towards LTC/Home town allowance</li> <li>5. Expenses towards recreation activities</li> </ol> </td> </tr> <tr> <td>Non-Teaching</td> <td> <ol style="list-style-type: none"> <li>1. Reimbursement of expenses towards tuition fees for the employees' dependent children</li> <li>2. Reimbursement of expenses towards hospitalization</li> <li>3. Reimbursement of expenses towards LTC/Home town allowance</li> <li>4. Expenses towards recreation activities</li> </ol> </td> </tr> <tr> <td>Students</td> <td> <ol style="list-style-type: none"> <li>1. Scholarship based on Merit</li> <li>2. Scholarship based on Merit cum Means</li> <li>3. Interest on Bank Loan</li> <li>4. Needy Student Fund</li> <li>5. Book Bank Facility</li> <li>6. Stipend to the Masters as well as full-time Ph. D. students</li> <li>7. Earn while you learn scheme</li> </ol> </td> </tr> </table>	Teaching	<ol style="list-style-type: none"> <li>1. Reimbursement of expenses towards tuition fees for the employees' dependent children</li> <li>2. Reimbursement of expenses towards hospitalization</li> <li>3. Reimbursement of expenses towards purchase of books/ magazine/ subscription of journals / professional body membership/ Internet services etc.</li> <li>4. Reimbursement of expenses towards LTC/Home town allowance</li> <li>5. Expenses towards recreation activities</li> </ol>	Non-Teaching	<ol style="list-style-type: none"> <li>1. Reimbursement of expenses towards tuition fees for the employees' dependent children</li> <li>2. Reimbursement of expenses towards hospitalization</li> <li>3. Reimbursement of expenses towards LTC/Home town allowance</li> <li>4. Expenses towards recreation activities</li> </ol>	Students	<ol style="list-style-type: none"> <li>1. Scholarship based on Merit</li> <li>2. Scholarship based on Merit cum Means</li> <li>3. Interest on Bank Loan</li> <li>4. Needy Student Fund</li> <li>5. Book Bank Facility</li> <li>6. Stipend to the Masters as well as full-time Ph. D. students</li> <li>7. Earn while you learn scheme</li> </ol>
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<b>6.5</b>	<b>Total Corpus Fund Generated:</b>				
	<b>₹ 10 Crores</b>				
<b>6.6</b>	<b>Whether Annual Financial Audit has been done:</b>				
	<b>Yes</b>				
<b>6.7</b>	<b>Whether Academic and Administrative Audit (AAA) has been done?</b>				
	Audit Type	External		Internal	
		Yes/No	Agency	Yes/No	Authority
	Academic	Yes	External Experts	Yes	IQAC
	Administrative	Yes	External Auditors	Yes	Internal Auditors
<b>6.8</b>	<b>Does the University/ Autonomous College declares results within 30 days?</b>				
	For UG Programmes		Yes		
	For PG Programmes		Yes		
<b>6.9</b>	<b>What efforts are made by the University/ Autonomous College for Examination Reforms?</b>				
	<ul style="list-style-type: none"> <li>The University has constituted an Examination Reforms Committee with one faculty representative from each Institute. This committee meets regularly and deliberates examination reform related issues.</li> <li>The committee also looks after the cases of malpractice by the students during the examinations. For all such cases, the said committee carries out the necessary investigation and submits a detailed report to the concerned Head of the Institution with recommendations of punishment, if any. Based on the recommendations of the committee, the Head of the Institution issues the necessary order of punishment.</li> </ul>				
<b>6.10</b>	<b>What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?</b>				
	<ul style="list-style-type: none"> <li>The University offers full-autonomy to all its constituent institutes with respect to all academic matters. In all academic bodies like, Board of Studies, Area Committees, Faculty and Academic Council; Faculty Members, Deans and the Heads of Departments are the members. They have full autonomy as far as academic decision making is concerned.</li> <li>As far as administrative matters are concerned, well-defined delegation of powers are given under the University regulations. The Heads of the Institutes and Heads of the Departments are also given financial as well as administrative powers.</li> </ul>				

6.11	<p><b>Activities and Support from the Alumni Association:</b></p> <p>Alumni Associations are actively involved in various activities at the University, some of them are listed below:</p> <ul style="list-style-type: none"> <li>• Career guidance to the students of current batch.</li> <li>• Help in sensitizing the students to industry needs and summer / final year placements.</li> <li>• Alumni members provide feedback on syllabus updating.</li> <li>• Representatives of the Institute of Management alumni participate in selection of the students for admission in the MBA programme.</li> <li>• Representatives of Alumni Associations participate as members of IQAC, Board of Studies.</li> <li>• Alumni participate in various activities like identifying industries for placements/internships, resource person during faculty training programs, planning industry visits, strategy planning, laboratory development etc.</li> <li>• Alumni interacted with accreditation peer review Team and gave their recommendation</li> <li>• Alumni Association of the Institute of Technology publishes a magazine SETU every year.</li> <li>• Alumni Association of the Institute of Technology felicitates its distinguished alumni on an institute foundation day</li> <li>• Institute of technology has an Alumni portal – AlmaConnect for sharing job opportunities for students and alumni, career progression, achievements and sharing campus related information with alumni</li> <li>• Institute of Technology organized its 18th Annual Alumni meet on 6<sup>th</sup> January 2018 at Nirma University campus. The event received more than 600 participations from alumni members, their family members and faculty members of the Institute. Chapter meets in Hyderabad, Singapore and Central NJ, USA were arranged in the current year.</li> <li>• Financial assistance for students' participation in national/state level paper presentation is provided by the Pharmacy Alumni Association.</li> <li>• Scholarships are given by the Institute of Technology Alumni Association.</li> <li>• Felicitation of toppers by the Institute of Pharmacy Alumni Association.</li> <li>• Institute of Pharmacy organized Annual Alumni Meet which was attended by 100 alumni members</li> <li>• Institute of Law has opened 5 alumni Chapters across major cities of the country</li> </ul>
6.12	<p><b>Activities and Support from the Parent – Teacher Association:</b></p> <ul style="list-style-type: none"> <li>• The University does not have any formal Parent Teacher Association. However, the University regularly takes feedback from the parents about the academic structure and processes and incorporates their suggestions at the time of making plans, policies and strategies.</li> </ul>
6.13	<p><b>Development Programmes for Support Staff:</b></p>

	<p>The support staff is provided in-house training and are also sent to participate in training programmes/workshops/conferences/seminars organized by external agencies.</p> <ul style="list-style-type: none"> <li>• At Institute of Law training programme was conducted for supporting staff</li> <li>• At Institute of Technology workshops for laboratory assistants are organized to improve their technical and administrative skills</li> <li>• At Institute of Pharmacy, Mr. Virendrakumar S. Goswami, Incharge Librarian attended one Day Seminar on “ADINET Librarians’ at Adani Institute of Infrastructure, Ahmedabad on August 12, 2017.</li> <li>• At Institute of Pharmacy, Mr. Virendrakumar S. Goswami, Incharge Librarian attended Two Day International Conference on “The Journey of Indian Languages: Perspectives on Culture and Society” at Dr. Babasaheb Ambedkar Open University, Ahmedabad during October 14-15, 2017. He presented paper “Use of Social Media Technology in Nirma University’s Libraries: A Study”</li> <li>• At Institute of Pharmacy, Mr. Hasmukh Rathod, Office Assistant attended Training programme “EAT module (Expenditure, Advance and Transfer)” organized by agencies under Central Sector Schemes of EMR, Ministry of AYUSH on August 21, 2017</li> </ul>
6.14	<p><b>Initiatives taken by the University to make the Campus Eco-Friendly:</b></p> <p>The University has taken various measures for water harvesting, electrical energy conservation and waste management to make the campus Eco-friendly. Some of the initiatives undertaken are:</p> <ul style="list-style-type: none"> <li>• The drinking water is supplied to all water rooms through press coke, which is an auto off type of coke thus ensuring no wastage of water.</li> <li>• A sewage treatment plant is erected in the campus having a capacity of four lacs litres per day. The treated water is used in the gardens throughout the campus.</li> <li>• There are five percolation wells constructed in campus to percolate collected water from campus.</li> <li>• Electrical energy conservation is being carried out through various measures like Heat Ventilation and Air Control.</li> <li>• Organic waste converter machine has been installed in the University campus which treats waste food and dry leaves/dry flowers etc. to convert it in to organic manure, which is used in maintaining garden in the campus.</li> <li>• Planting variety of trees and plants in various gardens has contributed to carbon neutrality in the campus.</li> <li>• Majority of the circulars for University notifications/office orders/office notices/student notices are circulated through e-mails to avoid excessive usage of paper.</li> </ul>

## CRITERION – VII

7.	<b>Innovations and Best Practices:</b>
7.1	<b>Innovations introduced during this academic year which have created a</b>

	<p><b>positive impact on the functioning of the institution:</b></p> <ul style="list-style-type: none"> <li>• Academic Audit of all the constituent institutes.</li> <li>• Rules for Preventing Plagiarism.</li> <li>• Training programmes for faculty members.</li> <li>• Funding up to ₹ 30 Lakhs to the faculty members for major research projects by the University.</li> <li>• Awards &amp; Incentive schemes for the faculty members.</li> <li>• Use of social media for better visibility and improving peer perception</li> <li>• Inculcating self-study and 24 x 7 learning habits through Blog, Course web site, Blended learning</li> <li>• Concept of minor specialization for fast learners to enhance their knowledge and acceptance in a subject field</li> <li>• Strong networking with nationally reputed R&amp;D organization.</li> <li>• Collaboration with global universities.</li> <li>• Conduction of enrichment courses and supplementary courses, Use of ICT in Teaching-Learning</li> <li>• Research opportunities through a good number of externally funded research projects.</li> <li>• Flexibility in selection of courses.</li> <li>• At Institute of Pharmacy idea of team teaching of various topics is introduced which has enhanced learning of the student</li> <li>• More case studies and simulations introduced in the appropriate courses</li> <li>• Institute of Law has started Skill Lab courses in Semester – I covering skills like Communication Skills, Adaptability Skills, Decision making and Critical Thinking Skills, Self Awareness Skills and Assessing and Analyzing Skills. The institute has also introduced Choice Based Honors at UG</li> </ul>
7.2	<p><b>Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year:</b></p> <ul style="list-style-type: none"> <li>• Implemented Academic Audit of all the constituent institutes.</li> <li>• Implemented fourth level of Academic Audit viz. the Audit by external experts</li> <li>• Implemented the scheme of Awards and Incentives for the faculty members.</li> <li>• Implemented the scheme of funding to the faculty members for Major and Minor Research Projects.</li> <li>• Organized four-week Induction Training, ten-week Research Orientation for the faculty members of the constituent institutes.</li> <li>• Student Satisfaction Survey was carried out for all the constituent Institutes</li> <li>• Modules were added to Management Information System</li> <li>• At Institute of Technology, EC department submitted FIST proposal to avail funds for improvement of science and technology infrastructure</li> <li>• Institute of Technology initiated the process of developing ‘Small</li> </ul>

		<p>Satellite Payload System'</p> <ul style="list-style-type: none"> <li>• At Institute of Technology, Mechanical Engineering Department submitted the proposal to Centre for Entrepreneurship Development (CED), Government of Gujarat for establishing Advanced Metrology Centre at the Institute with an objective of enhancement of technical competence and skilled manpower in the state of Gujarat.</li> <li>• To increase collaboration with foreign Universities, Institute of Technology has signed MoUs with Florida Atlantic University, USA, Memorial University of New Found land in Canada, Wadhvani Foundation, California, USA, Carleton University, Canada, University of Georgia, USA State University of New York, USA. Institute is in collaborative discussions with University of Southern California, USA, Iowa State University, USA, University of Houston, USA</li> <li>• At Institute of Technology, one student each from B.Tech. Electrical Engineering and B.Tech. Mechanical Engineering carried out their major projects of Semester VIII at University of Pretoria, South Africa and FAU, USA respectively. Further, Total nine students took their summer internship in various USA universities namely SUNY Binghamton, Florida Atlantic University, University of Houston, Iowa State University as a part of the international collaboration.</li> <li>• At Institute of Technology, the process of curriculum revision for B.Tech. Programs was initiated in line with AICTE model curriculum. Curriculum for B.Tech. first year was revised and approved by the Academic Council. The new curricula will be implemented from the academic year 2018-2019.</li> <li>• University applied for the grant under Atal Incubation centre to establish of an incubation centre in the University campus. The proposal was shortlisted for the presentation. The process of establishing a physical incubator is initiated. Survey to set up a physical incubator will be carried out and a proposal for the same will be prepared.</li> <li>• Institute of Technology had organized about 15 major extension activities during the financial year 2017-18. The allotted fund of Rs. 1,50,000/- was effectively utilized during the year. On the basis of this utilization, the University has allotted Rs. 3,00,000/- for the financial 2018-19. As per the revised Course structure students will undertake 3 weeks of community service during the summer break between B.Tech. Semesters II and III. This change was made with a view to strengthen and derive tangible benefits from the community service course.</li> <li>• At Institute of Science, Institute of Science Research Council with faculty and research scholars as members was formed</li> <li>• Institute of Science organized six Community Extension Activities</li> <li>• At Institute of Law, post formulation of CLOs and Rubrics in all courses, Assurance of Learning (AoL) across all courses has been initiated. As a next step, monitoring of student groups will be undertaken to narrow down the learning gaps</li> <li>• At Institute of Law for enhancement of clinical aspects of legal education in selected core courses Clinical Professor, Dr. Jyotsna Yagnik has been appointed to undertake and monitor clinical courses.</li> </ul>
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	<p>Further, Professional Ethics has been introduced in Semester – II of the new academic structure beginning batch 2018-19. Professional ethics have been strengthened in all courses by emphasizing importance of plagiarism avoidance and best academic practice</p> <ul style="list-style-type: none"> <li>• At Institute of Law to strengthen Alumni Association and partnership with student body Alumni Association Chapters have been initiated across major cities of India</li> <li>• Institute of Law has signed MoUs with Penn State University, (USA) and HOF University, (Germany). Foreign legal system course was conducted by faculty from Penn State University and HOF University.</li> </ul>
<b>7.3</b>	<p><b>Give two Best Practices of the University: (please see the format in the NAAC Self-study Manuals)</b></p> <p>For details, please refer to Annexure-9.</p>
<b>7.4</b>	<p><b>Contribution to Environmental Awareness / Protection:</b></p> <ul style="list-style-type: none"> <li>• The students of all the constituent Institutes of the University are made well aware of the need of preservation of the environment, eco-friendly system, conservation of energy in the form of electricity, water, etc. through: <ul style="list-style-type: none"> <li>a) Environment related courses in the curriculum,</li> <li>b) Seminar, Workshops, and Awareness Programmes</li> <li>c) Participation in plantation of plants both normal and medicinal, etc.</li> </ul> </li> <li>• In addition to the above, the Institute of Law has established a research centre in the area of 'Environment Law'.</li> </ul>
<b>7.5</b>	<p><b>Whether environmental audit was conducted?</b></p> <p>The University consistently endeavours to create and maintain an environmentally sustainable campus. The campus houses a healthy green cover with wide zones allocated for trees, shrubs and gardens. Although there is no formal environmental audit being conducted in the campus, the University undertakes a variety of initiatives to preserve and enhance the natural environment on the campus. The green environment is maintained by planting various types of plants which have over the years grown up.</p>
<b>7.6</b>	<p><b>Any other relevant information the institution wishes to add:</b></p> <p>Three constituent institutes of the University and the University as a whole participated in NIRF ranking introduced by the MHRD and obtained following rankings at national level.</p> <ul style="list-style-type: none"> <li>• Nirma University 94<sup>th</sup> Rank</li> <li>• Institute of Pharmacy 18<sup>th</sup> Rank.</li> <li>• Institute of Management In the rank band of 51-75.</li> <li>• Institute of Technology In the rank band of 101-150.</li> </ul>

<b>8.</b>	<p><b>Plans of the University for Next Year:</b></p> <ul style="list-style-type: none"> <li>• To comply with the requirements with regards to the observations made in</li> </ul>
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	<p>NAAC report.</p> <ul style="list-style-type: none"> <li>• To improve the NIRF ranking of University as a whole and also the constituent institutes for the year 2019</li> <li>• To strengthen the research wing of the University.</li> <li>• To further strengthen the implementation of different policies already evolved.</li> <li>• To promote the use of ICT in teaching-learning, research and administration.</li> <li>• To promote eco-friendly practices</li> <li>• To enhance and strengthen collaborations with the international universities and research institutes of repute to organise joint academic and research activities, support exchange of faculty and staff, support and jointly finance Research collaboration, capacity building, etc</li> <li>• To increase the participation of premium hiring companies with a view to increasing the median salary of the students placed</li> <li>• To initiate setting up of at least centre of excellence in an area of strength</li> <li>• To set up Centre for Advanced Instrumentation at the University</li> <li>• To improve the research/collaborations/consultancy in the various thrust areas identified</li> <li>• To explore possibility for starting Masters programme in various disciplines</li> </ul>
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**Dr. Urmil Dave**  
Name & Signature of IQAC Coordinator

**Dr. Anup K. Singh**  
Name & Signature of IQAC Chair Person



## ANNEXURE I

Workshops / Seminars Organized by the IQAC

Sr. No.	Title / Theme of the Programme	Programme Level (International / National / State / In-house)	Date of Programme (dd/mm/yyyy)	Programme Duration (in hrs)	Number of Participants
1.	Workshop on “ORCID-ID Information on E-resources and Courseware” and “Zotero reference management tool training” by Mr. Virendra Goswami (For M.Pharm students) at Institute of Pharmacy	In-house	12/10/2017	3 Hours	114
2.	Workshop on AOL and attainment of POs at Institute of Pharmacy	In-house	19/03/2018	12 Hours	23
3.	Lecture by Mr. Mohsin Arabiani, Manager, Amneal Pharmaceuticals on “Converting Research into Intellectual Property” at Institute of Pharmacy	In-house	04/05/2018	2 Hours	114
4.	Case Method for Effective Management Education at Institute of Management	In-house	16/04/2018 to 30/04/2018	72 Hours	28
5.	Flying classroom at Institute of Architecture	International	09/08/2017 to 14/08/2017	40 Hours	22
6.	Workshop on, Intellectual Property-Ideas to Asset	National	02/02/2018 to 03/02/2018	24 Hours	33
7.	Meeting of the Project Investigators / Collaborators and the Experts in the field of Plasma, Fusion Science, Fusion Technology and Allied Areas	National	26/04/2018 to 28/04/2018	48 Hours	150
8.	Seminar for all Doctoral Students	National	20/01/2018	6 Hours	109
9.	TCS Research Interaction Day	Inhouse	30/032018	4 Hours	100

## ANNEXURE II

**Completed Externally Funded Major Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Research Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Application of precast products made using bottom ash and fly ash for rural pavements and other infrastructure in India	Dr. U. V. Dave Dr. Rishi Gupta	IC-IMPACTS	43,57,000
2.	Development of Reinforced Aerated Blocks with Innovative Composite Ingredients as Compression Members for Structural Applications with Stringent Design Specifications	Dr. U. V. Dave	ISRO - RESPOND	8,00,000
3.	Study the behavior of precast beam-column junction under progressive collapse scenario – An experimental and analytical investigations	Dr. P. V. Patel Prof. Digesh Joshi	SERB (DST)	19,53,000
4.	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
5.	Dynamic Characterization of Shock Table	Dr. S. P. Purohit Dr. P. V. Patel	GUJCOST	7,40,000
6.	Oceanic Pollution and other Ocean Phenomenon Monitoring using Feature Extraction from Multi-Polarized SAR Data	Dr. T. H. Zaveri	ISRO Respond, Bangalore	18,26,000
7.	Process development for minimization of spring back deformation and enhancement of profile accuracy of CFRP reflectors	Prof. S J Joshi, Dr. B A Modi, Dr. K M Patel	ISRO	14,52,000
8.	Generation of thermostable variants of a mesophilic amylase by directed evolution and their characterization	Prof. Sarat Dalai	GSBTM, Gandhinagar	15,95,000
9.	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	15,90,000
10.	Liquid Phase combinatorial synthesis of benzimidazole library for antitubercular activity	Dr. Manjunath Ghate	Department of Science and Technology	34,00,000
<b>TOTAL</b>				<b>1,89,84,000</b>

**Ongoing Externally Funded Major Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Total Sanctioned Funding (in ₹)
1.	Reduction of E-Factor in Dyes and Pigment Industries (Environmental Pollution Control)	Dr Parin Shah	Green Environment Services Co-op. Soc. Ltd. - CETP, Vatva	7,50,000
2.	Identification of Material and Distress for Road Network of Ahmedabad City Using	Prof. H. A. Dalwadi Dr. P. R. Patel	SAC-ISRO	19,56,000

	L and S Band Airborne SAR (NISAR)			
3.	Identification of Perched Water Table Areas in Irrigated Tracks using Airborne SAR Data (NISAR)	Dr. P. R. Patel Shri R. L. Mehta	SAC-ISRO	20,67,000
4.	Calibration and Validation of RISAT-1 SAR Sensor	Dr. P. R. Patel	SAC, ISRO	37,60,000
5.	Identification of Existing Road Material, Condition and Potential Parking Area of Ahmedabad City using AVIRIS Data and Updation Plan of Undeveloped Road	Dr. P. R. Patel Dr. Tanish Zaveri	SAC-ISRO	17,00,000
6.	Development of Low Cost Methodology for Surveying and Mapping with Indian Regional Navigation Satellite System (IRNSS-NAVIC)	Dr. P. R. Patel Prof. H. A. Dalwadi	SAC-ISRO	19,03,000
7.	Design and Development of Scalable Data Mining Algorithms for Big Earth Data.	Dr. Sanjay Garg	SAC-ISRO	10,70,000
8.	Using Deep learning to understand and predict the dynamics of Tokamak discharges	Dr. Priyanka Sharma	Board of Research in Nuclear Science	26,00,000
9.	Spectral Discrimination and Separability Analysis of Crops and Weeds using Deep Learning Techniques	Prof. Tarjni Vyas	SAC-ISRO	10,00,000
10.	Development of comprehensive technique for soil moisture estimation using L & S band airborne polarimetric SAR data	Dr. Sanjay Garg	SAC-ISRO	21,80,000
11.	Trajectory Planning for Robotic Arm for Automatic Damage Detection & Recognition of First Wall Tile Images in Tokamak using Image Processing and Machine Learning	Dr. Swati Jain	Board of Research in Nuclear Science	21,64,300
12.	Design, Fabrication and Testing of a Transition (Mode Converter) from Free Space Gaussian Beam to Fundamental D-band Waveguide	Dr. D. A. Pujara	Board of Research in Fusion Science & Technology	23,79,000
13.	Development of Blind Hyper Spectral Unmixing Algorithm for Water Pollutant Identification Due to Sewage and Industry Disposals for South Karnataka Coast, Mangalore Region	Dr. T. H. Zaveri	ISRO	17,00,000
14.	Design Against Radiation Effects(DARE) ASIC Standard Cell Library for VLSI Circuits	Dr. N. M. Devashrayee	DRDO	37,72,000
15.	Study and Development of Domain Adaptive Classification Algorithms for Advanced Earth Observation and Annotation System	Dr. T. H. Zaveri	SAC-ISRO	17,90,000
16.	SAR Polarimetry for Detecting Ocean Surface Targets	Dr. Alka Mahajan	SAC-ISRO	18,52,000
17.	Mining agricultural cover from SAR images measuring necessary crop parameters using IOT framework to estimate water and irrigation requirement for agricultural use	Dr. Madhuri Bhavsar, Dr. Zunnun Narmawala, Prof. Swati Jain, Prof. Vivek Prasad	SAC-ISRO	18,52,000
18.	Optimizing Parallelisation of Legacy Code on appropriate HPC platform	Dr Madhuri Bhavsar, Dr. Gaurang Raval, Prof. Monika Shah, Prof. Niraj Shah	Board of Research in Fusion Science & Technology	12,23,550
19.	Infectious nature of Plasmodia modulating the innate response of host in liver stage	Prof. Sarat Dalai	DST, New Delhi	52,10,000

	infection deciding the fate of adaptive immunity”			
20.	Development of Chimeric IL-15 to improve its bioavailability and efficacy.	Prof. Sarat Dalai	DBT, New Delhi	34,18,000
21.	Reconstitution of novel TK/NOG mice with ‘Humanized Liver’ to study liver stage infection of Plasmodium falciparum	Dr. Rajeev Tyagi	DST-SERB, New Delhi	42,05,960
22.	Regulation of MHC II expression: Immunity to malaria	Dr. Pranati Sar	DST- SERB, New Delhi	35,10,000
23.	Role of Synatoenic Adhesion Molecules (SAMs) for insuling secretion during Diabetic and Hypoglycemic condition	Dr. Ameer Nair	DST-SERB, New Delhi	29,40,000
24.	Investigation of the regulatory role of miR-712 in inflammation induced skeletal muscle insulin resistance	Dr. Sriram Seshadri	DST-SERB, New Delhi	9,35,000
25.	Elucidating the role of short chain fatty acids (SCFAs) and its receptors in high sugar diet induced type II diabetes	Dr. Sriram Seshadri	GSBTM, Gandhinagar	22,51,920
26.	To explore non-equilibrium atmospheric plasma for effective sterilization including biological safety aspects	Dr. Shital Butani	Board of Research in Nuclear Sciences	20,78,250
27.	Epidemiology of anemia in pre-school tribal children of eastern Gujarat with reference to etiology, pathophysiology and nutritional impact	Dr. Shital Panchal	Indian Council of Medical Research	18,60,610
28.	Evaluation of radio protective potential of medicinally important Indian bamboo plants in cancer	Dr. Priti Mehta	AYUSH	42,00,000
29.	Evaluation of DNA Polymerase Inhibitors for Treatment of Alzheimer’s Disease	Dr. Jigna Shah	Gujarat State Biotechnology Mission	20,81,920
30.	Exploring the effect of histone deacetylases (HDAC) in cancer-cachexia and their downstream targets	Dr. Bhoomika Patel	Science & Engineering Research Board	27,00,000
31.	Glutathione Appended Polymer Nano constructs of Asiatic acid for efficacious Neuro protective agents	Dr Niyati Acharya	Department of Biotechnology	45,56,800
32.	FIST grant	Institute of Pharmacy	Department of Science and Technology	55,00,000
33.	Preparation of District Human Development Report of Devbhumi Dwarka District	Prof. Nikunj Patel, Prof. M.Mallikarjun	Gujarat Social Infrastructure Development Society, Governemnt of Gujarat	6,00,000
34.	Adoption & Effectiveness of Digital Health Services in India: A Study of State of Gujarat	Prof. Jayesh P Aagja	Indian Council of Social Science Research, New Delhi	20,00,000
35.	RESIDE	Prof. Utpal Sharma	Department of Science and Technology	10,92,500
<b>TOTAL</b>				<b>8,48,59,810</b>

**Sanctioned Externally Funded Major Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Research Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Proactive solution for achieving trust in cloud computing using machine learning approach	Dr Madhuri Bhavsar , Dr. Asheesh Shah, Prof. Vivek Prasad	DST	38,11,750
<b>TOTAL</b>				<b>38,11,750</b>

## ANNEXURE III

**Completed Externally Funded Minor Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Research Project	Project Investigator/s	Funding Agency	Total Sanctioned Funding (in ₹)
1.	Design of Low Noise, Low Power, Automatic Gain Controlled Amplifier for Biomedical Applications	Prof. D. J. Panchal	Gujarat Council on Science and Technology	3,20,000
2.	Development of Microscopic Technique for Automatic Characterization of the Cell Organisation for Authentication of few Indian Herbal Plants	Dr. T. H. Zaveri	Gujarat Council on Science and Technology	2,30,000
3.	Establishment of Free Space Optical communication link for real time audio transmission	Prof. D. G. Shah	Gujarat Council on Science and Technology	3,41,000
4.	Investigation into neuroprotective effects of <i>Bergenia ciliate</i> roots in Alzheimer's disease with special reference to bergenin	Dr. Niyati Acharya	Gujarat Council on Science and Technology	3,22,000
5.	Ocular iontophoretic delivery of nanoparticles via transscleral route for posterior disease	Dr. Jigar Shah	Gujarat Council on Science and Technology	7,00,000
6.	Development and Optimization of mucoadhesive film for treatment of vaginal candidiasis	Dr. Renuka Mishra	Gujarat Council on Science and Technology	4,85,000
7.	Investigation of mechanism of action of selected herbal drugs for the treatment of attention deficit hyperactivity disorder (ADHD)	Dr. Jigna Shah	Gujarat Council on Science and Technology	4,80,000
8.	Design and synthesis of quinoline derivatives as novel apoptosis inducers	Dr. Vivek Vyas	Gujarat Council on Science and Technology	6,55,000
<b>TOTAL</b>				<b>35,33,000</b>

**Ongoing Externally Funded Minor Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Research Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Synthesis and Characterization of Magnetically Hard/Soft – SrM/Ni Ferrite Nano Components	Dr. Chetna Chauhan	UGC – DAE	45,000
2.	Effectiveness and Efficiencies of MGNREGA in Five Districts of Central Gujarat and its Impact on Quality of Life	Prof. Samik Shome	Indian Council of Social Science Research	4,20,000
3.	Screening & characterization of Anti-cancer bioactive Principle from the indigenous plants of Dang Forest, Gujarat	Dr. Priti Mehta	Gujarat Council on Science and Technology	3,00,000
4.	Effect of polyphenols containing plant extracts in the treatment and prevention of age related neuro-degenerative disorders	Dr. Shital Panchal	Gujarat Council on Science and Technology	5,35,000
5.	Design and synthesis of novel pteridine derivatives as Auora Kinase inhibitors	Dr. Hardik Bhatt	Gujarat Council on Science and	2,70,000

	for the treatment of cancer		Technology	
6.	Investigation of the role of Tephrosia purpurea in the cardiovascular complications in rats	Dr. Shraddha Bhadada	Gujarat Council on Science and Technology	3,90,000
7.	Evaluation of chemoprotective potential of active constituent of L. usitatissimum in colon cancer associated with diabetes mellitus	Dr. Bhoomika Patel	Gujarat Council on Science and Technology	2,80,000
8.	Impact of industrialization, mining, urbanization on biodiversity in select blocks of Gujarat	Prof. Pratima Singh	Raman Development	1,05,000
9.	Affordable Housing: A comparative analysis of projects in Ahmedabad	Prof. Pratima Singh	Institute of Town Planning, India, Gujarat Regional Chapter	1,15,000
<b>TOTAL</b>				<b>24,60,000</b>

## ANNEXURE IV

**Ongoing Nirma University Funded Major Research Projects (From July 01, 2017 to June 30, 2018)**

<b>Sr. No.</b>	<b>Title of the Research Project</b>	<b>Name of Principal Investigator</b>	<b>Funding Agency</b>	<b>Grant (in ₹)</b>
1.	Affordable Pd doped Perovskite based catalytic converter for abating automotive emission	Dr. Femina Patel	Nirma University	27,00,000
2.	Formulation development and evaluation of Nanoparticulate systems for targeted delivery of anticancer agents	Dr. Mayur Patel	Nirma University	28,92,400
3.	Microbial Fuel Cell: An Approach for Wastewater Treatment with Generation of Green Electricity	Dr. Nasreen Munshi	Nirma University	29,90,700
			<b>TOTAL</b>	<b>85,83,100</b>



## ANNEXURE V

**Completed Nirma University (NU) Funded Minor Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Research Project	Project Investigator/s	Funding Agency	Total Sanctioned Funding (in ₹)
1.	Development of low cost technique to remove copper from e-waste	Prof. Amita Chaudhary	NU	1,00,000
2.	Fabrication, characterization and Application of Polymer in Solar Cell	Prof. Neha Patni	NU	1,00,000
3.	Use of pervious concrete to solved water clogging problem at Nirma university campus	Prof. Tejas M. Joshi & Dr. U. V. Dave	NU	1,00,000
4.	Prototype of Femto Satellite using Embedded Processors for Internet of Space	Prof. Ami Shukla Dr. N. P. Gajjar	NU	99,000
5.	Design and Investigation of Advanced Control Schemes for Quadruple Conical Tank System	Prof. Alpesh Patel Prof. J. B. Patel	NU	1,00,000
6.	3-D Laser Triangulation Measurement based object height measurement	Prof. H. K. Kapadia	NU	1,00,000
7.	Development of Navigation Algorithm for Autonomous mobile Robot	Prof. V. M. Vaidya Prof. A. K. Sharma	NU	1,00,000
8.	Design of walking mechanism for a bipedal robot	Dr. J.M. Dave, Dr. M.M. Chauhan	NU	1,00,000
9.	Experimental investigation on hole flanging operation by incremental sheet metal forming	Dr. B.A. Modi Prof. R.D. Makwana	NU	1,00,000
10.	Tribology with biodiesel: An experimental study to identify tribo- corrosion behaviour of different bio diesel	Dr. A.M. Lakdawala, Prof. T.N. Raval	NU	1,00,000
11.	Evaluation of effect of induced shear in blending of powders on mechanical properties of Aluminum based metal matrix Composites	Dr. K.M. Patel, Prof. Arvind Sankhla	NU	50,000
12.	Experimental Investigations on Artificially Roughened Solar Air Heater	Dr. S.V. Jain Dr. V.J. Lakhera	NU	1,00,000
13.	Investigation of heat transfer in Pool boiling over structured surface	Prof. B.A. Shah	NU	95,000
14.	To study effect of characterization properties on dimensional control for composite product	Prof. D.B. Shah Prof. S.J. Joshi	NU	1,00,000
15.	Succession Planning in Family Owned Businesses	Prof. Pingle Sameer, Prof. Aagja Jayesh	NU	60,000
16.	Study on Efficiency of Stock Futures Market in India	Prof. Danak Deepak, Prof. Patel Nikunj	NU	99,400
17.	Teaching-Learning Entrepreneurship - An Impact Study	Prof. Bhatt Shahir, Prof. Bhatt Amola	NU	21,000
18.	Negative Externalities Caused by Aesthetic Pollution	Prof. Soni Nirmal, Prof. Poturaju Naresh	NU	32,800
19.	Investors Behaviour towards Mutual Fund Investing with Reference to Investors in Gujarat	Prof. Rijwani Parag, Prof. Aagja Jayesh	NU	50,000
20.	Modeling Performance Measurement of Service Organization Using Data Envelopment Analysis (DEA)	Prof. Jhaveri Chetan	NU	1,00,000
21.	Solubility enhancement of BCS class II drug using emulsifying drug delivery system	Dr. Mohit Shah	NU	90,000
22.	Synthesis of co-crystal of acyclovir for improvement of physicochemical parameters	Dr. Jignasa Savjani	NU	85,000
23.	Solubility enhancement of lead candidates as	Dr. Nrupesh Patel	NU	1,00,000

	anti-diabetic agents	Dr. Bhumika Patel		
24.	Evaluation of anti-hypertensive agent in cancer cachexia induced cardiotoxicity	Dr. Bhumika Patel	NU	55,000
25.	Pharmacological evaluation of Antiuro lithiatic activity of roots of <i>Grewia flavescens</i>	Dr. Niyati Acharya	NU	80,000
26.	Beneficial effect of <i>pimpinella anisum</i> in delaying cataract	Dr. Shraddha Bhadada	NU	65,000
27.	In-Silico designing, synthesis and pharmacological evaluation of novel anti cancer agents	Prof. Palak Parikh	NU	90,000
<b>TOTAL</b>				<b>22,72,200</b>

**Ongoing Nirma University (NU) Funded Minor Research Projects (From July 01, 2017 to June 30, 2018)**

Sr. No.	Title of the Research Project	Name of Principal Investigator	Funding Agency	Grant (in ₹)
1.	Synthesis, Characterization and Application of Polymer in Organic Solar Cell	Prof. Neha Patni	NU	1,00,000
2.	Experimental Investigation on Behaviour of Structural System under Lateral Load	Prof. U. K. Koshti, Dr. S. P. Purohit	NU	1,00,000
3.	Automization in Fertilization for Small Scale Indian Farms	Prof. A. I. Mecwan Prof. V. G. Savani Prof. P. M. Bhatasnan	NU	79,000
4.	Design and Development Of Multi Branch Heat Pipe And Its charging set-up	Prof. A.A. Bhatt, Prof. S.V. Jain	NU	1,00,000
5.	Enhancement of a Downdraft Gasifier Performance with Lignite Feedstock	Prof. D.S. Upadhyay, Dr. R.N. Patel	NU	1,00,000
6.	Design and Development Of Multi Branch Heat Pipe And Its charging set-up	Prof. Roshan Tandel, Dr. S.V. Jain, Dr. R.N. Patel	NU	1,00,000
7.	Experimental investigation on residual stress developed during friction stir welding	Prof. Nipun Raval, Dr. N D Ghetiya	NU	1,00,000
8.	Synthesis and characterization of magneto rheological fluid using magneto rheometer	Prof. Hiren Prajapati, Prof M B Panchal	NU	1,00,000
9.	Application of acoustic based technique for detection of machinery fault	Prof. D.V.Patel, Prof. V.M.Bhijawala, Dr. K.M. Patel	NU	1,00,000
10.	Techno-Managerial Implications of Mobile Technology Adoption in Emergency Medical Services	Prof. Sahu Subrat	NU	40,000
11.	Marcom Practises in Retail Stores	Prof. Parashar Sapna, Prof. Jain Sanjay	NU	60,000
12.	Gender Audit	Dr. Tarkesh Molia	NU	1,00,000
13.	Juvenile Justice	Dr. K.P. Malik	NU	1,00,000
14.	A Study On Effectiveness Of Problem Based Learning In Legal Education	Dr. Shalini S.	NU	80,000
15.	Mapping Politico-Legal Dilemmas Associated With Climate Refugees	Prof. Rejitha Nair	NU	90,000
<b>TOTAL</b>				<b>13,49,000</b>

## ANNEXURE VI

**Details about Faculty Paper Publications (From July 01, 2017 to June 30, 2018)****International Journals**

Sr. No.	Name of Authors	Paper Title	Name of Journal	Vol. No.	Page No.	Month and Year of Publication	ISBN / ISSN No. of the Journal	Impact Factor	No. of Citations Received by the Paper
1.	Leena V Bora, Rajubhai K Mewada	Visible/solar light active photocatalysts for organic effluent treatment: fundamentals, mechanisms and parametric review	Renewable and Sustainable Energy Reviews	46(C)	1393-1421	09/2017	ISSN 1364-0321	9.122	41
2.	Samir C. Nimkar, Rajubhai K. Mewada, Marc A. Rosen	Energy and exergoeconomic analysis of thermally coupled reactors for methanol synthesis	International Journal of Hydrogen Energy	42(47)	28113-28127	11/2017	0360-3199	3.58	1
3.	Neha Patni, Shibu Pillai	Newer approach of using alternatives to (Indium doped) metal electrodes, dyes and electrolytes in dye sensitized solar cell	Mater. Res. Express	5(4)	045509	04/2018	2053-1591	1.151	-

4.	Leena V Bora, Rajubhai K Mewada	Photocatalytic treatment of dye wastewater and parametric study using a novel Z-scheme Ag <sub>2</sub> CO <sub>3</sub> /SiC photocatalyst under natural sunlight	Journal of Environmental Chemical engineering	5(6)	5556-5565	12/2017	2213-3437	1.385	1
5.	H. Kothari, Paresh V. Patel and Digesh D. Joshi	Behaviour of the precast portal frames under lateral loading	Asian Journal of Civil Engineering	18	1059-1076	08/ 2017	15630854	0.22	-
6.	Shweta Sharma, Gautam Dadhich, Mihir Rambhia, Alope K. Mathur, R.P Prajapati, P.R Patel & Alpana Shukla	Radiometric calibration stability assessment of RISAT-1 SAR sensor using deployed point target array in Desalpar, Rann of Kutch site in India	International Journal of Remote Sensing	38, No. 23	7242-7259	09/2017	0143-1161 (Print) 1366-5901 (Online)	0	-
7.	Urvesh R. Patel, Paresh V. Patel	Concrete Filled Steel Tube Diagrid Structural System for High Rise Buildings	International Journal of Emerging Technology & Advanced Engineering	7, Issue 2	180-191	12/ 2017	2250-2459	0	-

8.	Jay R. Dholariya & Dr. Paresh V. Patel	Comparison of Limit Method and Working Stress Method of Design for Water Tank with varying Height to Diameter Ratio	International Journal of Emerging Technology & Advanced Engineering	7, Issue 2	186-191	12/2017	2250-2459	0	-
9.	Bhautik G. Patoliya, Prof. Digesh D. Joshi & Dr. Paresh V. Patel	Nonlinear FE analysis of Precast Dry Connection under Column Removal Scenario	International Journal of Emerging Technology & Advanced Engineering	7, Issue 2	269-276	12/2017	2250-2459	0	-
10.	Gautam Dadhich, Shweta Sharma, Mihir Rambhia, Alope K. Mathur, P. R. Patel & Alpana Shukla	Image quality characterization of fine resolution RISAT-1 data using impulse response function	Geocarto International	-	-	01/ 2018	10106049	0	-
11.	Mohammed Rihan Maaze and Mudassir Shoeb	Strengthening and Rehabilitation of RC Beams with Openings Using CFRP	Journal on Civil Engineering, i-manager Publication	8, Issue 1	1-7	12/ 2017-02/ 2018	ISSN: 2231-1068	0.857	0
12.	Prof. Tejas Joshi and Dr. Urmil Dave	Influence of VSI Aggregates on Properties of Pervious Concrete	Journal on Structural Engineering, i-manager Publication	Vol. 7, Issue 1	35-40	03/2018 - 05/2018	ISSN: 2320-2343	0.286	-

13.	Saurin S. Parikh , Damian Ruiz, Hari Kalva, Gerardo Fernández-Escribano, Velibor Adzic	High Bit-Depth Medical Image Compression With HEVC	IEEE Journal of Biomedical and Health Informatics	22 (issue: 2)	552-560	03/ 2018	Print ISSN: 2168-2194 Electronic ISSN: 2168-2208	4.18	2
14.	Chetna Chauhan	Structural Phases, Magnetic Properties and Maxwell-Wagner Type Relaxation of CoFe <sub>2</sub> O <sub>4</sub> /Sr <sub>2</sub> Co <sub>2</sub> Fe <sub>12</sub> O <sub>22</sub> Ferrite Composites	Materials Research Express	76105	1-10	07/ 2017	2053-1591	1.068	0
15.	Vijay Savani, N. M . Devashraye	Analysis and Design of Low-Voltage Low-Power High-Speed Double Tail Current Dynamic Latch Comparator	Analog Integrated Circuits and Signal Processing, Springer Journal	93	287-298	09/2017	1573-1979	0.623	0
16.	Vijay Savani, N. M . Devashraye	Analysis and Design of Body Driven Dynamic Latch Based Comparator in Low Supply Voltages with nMOS Driver	Journal on Electronics Engineering	7	1-8	11/ 2017	2229-7286	0	0

17.	Shailendra Singh, Subhash Chandra Bera, Punam Pradeep Kumar, Dhaval Pujara	Formulae for Determining Heterodyne System Spurious Frequencies that Coincide with Desired Output Frequency	Radio Electronics and Communications Systems	60	479-484	11/ 2017	1934-8061	0	0
18.	Ravindra Kumar Singh, and Dhaval Pujara	Design of an UWB (2.1–38.6 GHz) Circular Microstrip Antenna	Microwave Optical Technology Letters	59	2762-2767	11/ 2017	1098-2760	0.731	3
19.	Kedar Trivedi, and Dhaval Pujara	Mutual Coupling Reduction In Wideband Tree Shaped Fractal Dielectric Resonator Antenna Array Using Defected Ground Structure For MIMO Applications	Microwave Optical Technology Letters	59	2735-2742	11/ 2017	1098-2760	0.731	0
20.	Sagar Vegad, Harsh Patel, Hanqi Zhuang and Mehul Naik	Audio-Visual Person Recognition using Deep Convolutional Neural Networks	Journal of Biometrics & Biostatistics	8	2-7	11/ 2017	2155-6180	0	0

21.	Ankur Pandya, Prafulla K Jha	Magnetotransport Study Of Iron Doped Novel 2D Nanoribbons via Acoustical Phonon Interactions	International Journal of Nanoscience	17	18500-010	01/ 2018	1793-5350	1.43	0
22.	Shruti Sinha, Ch. V. N. Rao, and Dhaval Pujara	Balanced Power Amplifier Protection Against Load Mismatch	IEEE Microwave and Wireless Components Letters	28	165-167	02/ 2018	1558-1764	1.887	0
23.	Koushik Basak, R.K. Bahl, and Dhaval Pujara	Frequency Reconfigurable RF MEMS for Ka Band Applications	i-manager's Journal on Electronics Engineering	8	6-11	02/ 2018	2229-7286	0	0
24.	Piyush Bhatasana, Dhaval Pujara, S. C. Bera	Design of RF MEMS Capacitive Shunt Switch for Ku-Ka Band with Low Activation Voltage	i-manager's Journal on Electronics Engineering	8	27-32	02/ 2018	2229-7286	0	0
25.	Piyush Bhatasana, Dhaval Pujara, and S. C. Bera	Design of RF MEMS Capacitive Shunt Switch for X-Ku frequency Band	International Journal of Research in Electronics and Computer Engineering	6	176-180	03/ 2018	2348-2281	0	0



26.	Vijay Savani, N. M. Devashraye	Design and Analysis of Low-Power High-Speed Shared Charge Reset Technique based Dynamic Latch Comparator	Microelectronics Journal	74	116-126	04/ 2018	0026-2692	1.163	0
27.	Jayesh Popat Usha Mehta	Hardware Security in Case of Scan Based Attack on Crpto – Hardware	International Journal of VLSI design & Communication Systems	9	1-10	04/ 2018	0976-1357	0	0
28.	Piyush Bhatasana, Dhaval Pujara, S. C. Bera	Design of RF Micro Electro-Mechanical System (MEMS) Capacitive Shunt Switch for Closed Range Targeting RADARs with Low Activation Voltage	Sensor Letters	16	293-297	04/ 2018	1546-1971	0	0
29.	Ravindra Kumar Singh, Dhaval Pujara	Design and development of UWB (3.0–42.8 GHz) Truncated Annular Microstrip Monopole Antenna	Microwave Optical Technology Letters	60	1581-1584	04/ 2018	1098-2760	0.731	0

30.	P.K. Atreya, Dhaval Pujara, S. Mukherjee, Umesh Nagora, Praveenlal Edappala, Praveena Kumari, Rachana Rajpal	Design and Development of Millimeter Wave Interferometer Circuit for Real-Time Measurement of Plasma Density	Progress In Electromagnetics Research	68	1-10	05/ 2018	1937-8726	2.404	0
31.	P.K. Atreya, Dhaval Pujara, and S. Mukherjee	MHD Mode Bispectral Analysis from Density Fluctuations in Aditya Discharges	Fusion Engineering and Design	130	89-93	05/2018	0920-3796	1.319	0
32.	Dipak Modi Usha Mehta	Coverage Driven Functional Testing Architecture for Prototyping System using synthesizable active agent	International Journal of VLSI design & Communication Systems (VLSICS)	9	41-50	06/2018	0976-1357	0	0
33.	D. Chauhan, J. Bhalani, Y. N. Trivedi	Improved VBLAST MAP: A Novel Point-to-Point Symbol Detection Algorithm for MIMO Wireless Communication Systems	Radioelectronics and Communications Systems, Springer.	61	194–199	06/ 2018	0735-2727	0.167	0
34.	Ruchi Gajjar, Tanish Zaveri, Asim BAnerjee, K. V. V. Murthy	Trigonometry Based Motion Blur Parameter Estimation Algorithm	International Journal of Image Mining	3	67 – 78	06/ 2018	2055-6047	0	0

35.	Prof. T. H. Panchal, Prof. A. N. Patel	Design & Simulation of Solar Powered Zeta Converter using Perturb & Observe Method	International Journal of Engineering and Technology (IJET)	Volume 9, No. 3S	328-337	07/ 2017	0975-4024 (Online)	0	-
36.	Prof. P. N. Kapil	Force Profile Comparison for Various Stator Teeth Configurations and Translator Material in Linear Switched Reluctance Motor (LSRM)	Engineering and Computer Science Journal	Vol-1	367-370	07/ 2017	July 2017	0	-
37.	Dr. Akhilesh A. Nimje	Installation and Commissioning of a 100 kW Rooftop Solar Power Plant in Educational Institute	Indian Journal of Science and Technology	Volume 10, issue 27	1-5	07/ 2017	1756-638X	0	-
38.	Prof. S. K. Chauhan	Analyzing usage of Environmental Noise for Electricity Generation by Piezoelectric Systems	International Journal of Recent Technology and Engineering (IJRTE)	Volume -6 Issue-3	-	07/ 2017	2277-3878	0	-
39.	Prof. S. N. Jani	Energy Efficiency Improvement in Industrial Pumping Systems	International Journal of Electronics and Electrical Engineering	-	-	07/ 2017	09742042	0	-

40.	Prof. M. T. Shah, Prof. P. N. Tekwani	Current Controller for Multi-level Front-end Converter and Its Digital Implementation Considerations on Three-level Flying Capacitor Topology	Journal of the Institution of Engineers (India): Series B, Electrical, Electronics & Telecommunication and Computer Engineering, Published by Springer, USA	Vol. 98, no. 5	449-459	10/ 2017	2250-2106	0	-
41.	Prof. H. Amrolia Prof. V. M. Dholakiya	Estimation of Optimal Value of Synchronous Impedance Using Genetic Algorithm	International Journal of Electrical Engineering (IJEE)	Vol. 10, No.2	171-179	10/ 2017	0974-2158	0	-
42.	Dr. Siddharth Singh K. Chauhan, Dr. P. N. Tekwani	Simulation as-well as Experimental Investigations on T-Type NPC Topology based Three-Level Shunt Active Power Filter	IEEE International Conference on Technological Advancements in Power and Energy (TAP Energy 2017)	-	-	12/ 2017	-	0	-

43.	Prof. Gulshan Sharma	Automatic Generation Control Design Based on Full State Vector Feedback for a Multi-Area Energy System Connected via Parallel AC/DC Lines	World Academy of Science Engineering and Technology	vol. 11, no. 7	823-828	12/ 2017	-	0	-
44.	Prof. Gulshan Sharma	DFIG based AGC of power system using robust methodology	Energy Procedia, Elsevier	vol. 105	590-595	12/ 2017	-		-
45.	Prof. A. N.Patel Prof. T. H. Panchal	Design and FE Analysis of Interior Permanent Magnet (IPM) Brushless DC Motor	International Journal of Pure and Applied Mathematics	Volume 118, No. 17	915-924	02/ 2018	-	0	-
46.	Prof. K. Bhattacharjee	Economic Dispatch Problems using Backtracking Search Optimization	International Journal of Energy Optimization and Engineering, IGI-global	Vol-7, Issue-2	39-60	04/2018	ISSN: 2160-9500	0	-
47.	Prof. A. N. Patel	Design Optimization of Axial Flux Surface Mounted Permanent Magnet Brushless DC Motor For Electrical Vehicle Based on Genetic Algorithm	International Journal of Engineering Transactions A: Basics	-	-	04/2018	-	0	-

48.	Prof. D. M. Mehta	Design and Implementation of Wireless Control of Pick and Place Robotic Arm	International Journal of Advanced Research in Engineering and Technology (IJARET)	-	-	05/2018	-	0	-
49.	Prof. D. M. Mehta	Gesture Based Real Time Wireless Control of an Electrical Machine using Image Processing	International Journal of Advanced Research in Engineering and Technology (IJARET)	-	-	05/2018	-	-	-
50.	D. M. Adhyaru K. B. Pathak	ANFIS and Lyapunov based MRAC of Jacketed Stirred Tank Heater	International Journal of Electronics, Electrical and Computational System, Academic Science	6	626-631	08/ 2017	2348-117X	2.52	1
51.	Pronaya Bhattacharya	“A Critical Review of Next Generation Data Centers”	“International Journal of Information Technology and Electrical Engineering”	7	12-17	04/2018	online: 2306-708X	0	-
52.	Sudhir Yadav, Prof. Smita Agrawal, Dr. Jai Prakash Verma	SUTRON: IoT-based Industrial/ Home Security and Automation System to Compete the Smarter World	International Journal of Applied Research on Information Technology and Computing	8	193-198	08/2017	Print ISSN : 0975-8070. Online ISSN : 0975-8089	0	-
53.	Prof. Ujala Shamnani	A critical re-reading of the poem “Sarpsastra” by Arun Kolatkar	International Journal of English Language Literature in Humanities	6	82-89	01/ 2018	ISSN 2321-7065	0	0

54.	Dr. Mahesh A Yeolekar	Comparative study of effects of ramp angle on the nonlinear passive dynamic walking of kneed and knee-less biped robot	Arya Bhatta Journal of Mathematics & Informatics	10	191-198	04/18	ISSN 0975-7139	0	0
55.	Dr. Paramasivan S Vellala	Measuring Inclusive Growth Outcome in Major Indian States Evidence from Cross Section Data	Research Journal of Economics and Business Studies	8	7-18	06/ 2017	ISSN 2251-1555	6	3
56.	Dr.Ratna Rao	Importance of Chronemics in Communication	IJELLH	Vol5,issue9	434-438	09/ 2017	ISSN 2321-7065	0	0
57.	Vipulkumar manharlal bhojawala, dipakkumar vakharia	Closed-form relation to predict static pull-in voltage of an electrostatically actuated clamped-clamped microbeam under the effect of casimir force	Acta mechanica	228	2583 to 2602	07/2017	0001-5970	1.851	-

58.	Vipulkumar manharlal bhojawala, dipakkumar vakhararia	Closed-form solution for static pull-in voltage of electrostatically actuated clamped-clamped micro/nano beams under the effect of fringing field and van der waals force	Materials research express	4	126306	12/2017	2053-1591	1.068	-
59.	Bimalkumar jairamlal mawandiya, j.k.jha, jitesh thakkar	Production-inventory model for two-echelon closed-loop supply chain with finite manufacturing and remanufacturing rates	International journal of systems science: operations & logistics	4	199-218	08/2017	2330-2674	0	01
60.	Niraj shah, abhimanyu gavasane, amit agrawal, upendra bhandarkar	Comparison of various pressure based boundary conditions for three-dimensional subsonic dsmc simulation	J. Fluid Engg.	140	031205-031217	10/2017	0098-2202	1.437	-
61.	Jigar Suthar, K. M. Patel	Machining, and applications of aluminum metal matrix composites	Journal Materials and Manu	-	499-527	11/ 2017	1042-6914	2.274	-



62.	Gupta M. K., Sharma D. S., Lakhera V. J	Bubble-induced noise and vibration in cylindrical shell filled with liquid nitrogen	The Journal of Mechanical Engineering Science, SAGE Publications	232(5)	1-12	2018	ISSN:0954-4062	1.21	0
63.	Jatin Dave	Stress field around rectangular hole in functionally graded plate	International Journal of Mechanical Science	136	360-370	02/ 2018	ISSN: 0020-7403	3.57	0
64.	A M Lakdawala	A dual grid, dual level set based cut cell immersed boundary approach for simulation of multi-phase flow	Chemical Engineering Science	177	180-194	02/ 2018	ISSN: 0009-2509	3.306	1
65.	K M Patel, N D Ghetiya	Transient thermal analysis during friction stir welding between AA2014-T6 and pure copper	AIP Conference Proceedings	1943	-	04/2018	ISSN:0094-243X	0.26	0
66.	M A Makhesana, B K Mawandiya, K M Patel	Experimental investigations on the effect of process parameters with the use of minimum quantity solid lubrication in turning	AIP Conference Proceedings	1943	-	04/2018	ISSN:0094-243X	0.26	0

67.	Jani, Vishalkumar J.	Is Trade in Services Healthier than Trade in Goods?	Global Economy Journal	17.3	-	09/2017	1524-5861	0.392	-
68.	Rao, Indu	Work-life balance for sustainable human development: Cultural intelligence as enabler	Journal of Human Behavior in the Social Environment	27.7	706-713	2017	-	0	2
69.	Trada, Sandip, and Goyal, Vikas	The dual effects of perceived unfairness on opportunism in channel relationships	Industrial Marketing Management	64	135-146	July, 2017	0019-8501	3.678	5
70.	Shah, Charmi, and Praneti Shah	Influence of Crowdfunding on Innovative Entrepreneurship Eco-Systems in India.”	Journal of Asia Entrepreneurship and Sustainability	13.2	3-28	August, 2017	1177-4541	0	4
71.	Shah, Hardik, and Shilpa Surana Jain	Tussle to trust: developing an appreciative climate for a hydro-power organisation in India	International Journal of Intelligent Enterprise	4.4	345-360.	2017	1745-3232	0	-

72.	Tripurasundari Joshi	The Dynamics of knowledge sharing in the Biotechnology industry: An Indian perspective	Technology Innovation Management Review	8.1	5-15	2018	1927-0321	0	1
73.	Rao, Indu	Work-life balance for sustainable human development: Cultural intelligence as enabler	Journal of Human Behavior in the Social Environment	27.7	706-713	2017	-	0	2
74.	Dave Harshit, Kothari Charmy, Patel Nrupesh	Organophosphorus pesticides determination by novel HPLC and spectrophotometric method	Food Chemistry	230	448-453	09/ 2017	ISSN: 0308-8146	4.529	1
75.	Anroop B Nair, Bandar E Al-Dhubiab, Jigar Shah, Mahesh Attimarad, Sree Harsha	Poly(lactic acid-co-glycolic acid) Nanospheres Improved the Oral Delivery of Candesartan Cilexetil	Indian Journal of Pharmaceutical Education and Research	51	571-579	10-12/ 2017	0019-5464 (Print and online)	0.27	-

76.	Udit Chaube, Hardik Bhatt	3D-QSAR, molecular dynamics simulations, and molecular docking studies on pyridoaminotropans and tetrahydroquinazolines as mTOR inhibitors.	Molecular Diversity	21	741-759	07/2017	1573-501X (electronic version)	1.752	-
77.	Anna Pratima G. Nikalje, Shailee V. Tiwari, Jaydeep G. Tupe, Vivek K. Vyas, Gulamnizami Qureshi	Ultrasound Assisted-synthesis and Biological Evaluation of Piperazinyloxy-1-en-2-yl-2-chromen-2-ones as Cytotoxic Agents	Letters in Drug Design & Discovery	14	1195 - 1205	10/2017	1570-1808 (Print), 1875-628X (Online)	1.17	-
78.	Palak Patel, Krupali Parmar, Vivek K. Vyas, Dhaval Patel, Mili Das	Combined in silico approaches for the identification of novel inhibitors of human islet amyloid polypeptide (hIAPP) fibrillation	Journal of Molecular Graphics and Modelling	77	295-310	10/2017	1093-3263	1.754	-

79.	Nikum D.Sitwala, Vivek K.Vyas, Bhavesh C.Variya, Snehal S.Patel, Chirag C.Mehta, Dharmraj N.Rana, Manjunath D.Ghate	Liquid phase combinato rial synthesis of 1,2,5-trisubstituted benzimida zole derivative s as human DHODH inhibitors	Bioorganic Chemistry	75	118-126	12/2017	0045-2068	3.231	-
80.	Ankit Borisa, Hardik Bhatt	A comprehe nsive review on Aurora kinase: Small molecule inhibitors and clinical trial studies	European Journal of Medicinal Chemistry	140	1-19	11/2017	0223-5234	4.519	-
81.	Thakare V. N., Aswar M. K., Kulkarni Y. P., Patil R. R., Patel B. M.	Silymarin ameliorate s experimen tally induced depressive like behavior in rats: Involveme nt of hippocam pal BDNF signaling, inflammat ory cytokines and oxidative stress response	Physiology & Behavior	179	401-410	10/2017	0031-9384	2.835	1

82.	Mital Patel, Charmy Kothari	Review on Implementa tion of Multivaria te Approach for Forced Degradati on Study and Impurity Profiling with Regulator y Considera tions	Chromatograph ia	81	105- 125	09/2017	0009-5893 (Print) 1612-1112 (Online)	1.402	-
83.	Anuja Jawale, Charmy Kothari, Misari Patel and Mital Patel	Novel bio- analytical rp-hplc method for simultane ous estimation of aceclofena c and drotaverin e hydrochlo ride in human plasma by doe approach	European Journal of Biomedical AND Pharmaceutical sciences	4 (9)	545- 550	09/2017	2349-8870	4.382	-
84.	Neha Shah, Tejal Mehta and Mukesh Gohel	Formulati on and Optimizati on of Multiparti culate Drug Delivery System Approach for High Drug Loading	AAPS Pharm Scitech	18 (6)	2157- 2167	08/ 2017	1530-9932 (Online)	2.451	1

85.	Anita K. Bakrania, Bhavesh C. Variya, Prem Madan, Snehal S. Patel	Repeated dose 28-day oral toxicity study of DEAE-Dextran in mice: An advancement in safety chemotherapeutics.	Regulatory Toxicology and Pharmacology	88	262-272	07/ 2017	0273-2300	2.22	-
86.	Chavda Vishal K and Patel Snehal S	Restless Legs Syndrome , the Pitfall: Hardly Diagnosed and Rarely Treated Neurological Disease	Austin Journal of Clinical Neurology	4	1118-1127	07/2017	2381-9154	0	-
87.	Neha Shah, Tejal Mehta, Rahul Aware and Vasant Shetty	Investigation on influence of Wurster coating process parameters for the development of delayed release minitables of Naproxen	Drug Development and Industrial Pharmacy	43(12)	1989-1998	10/ 2017	0363-9045 (Print) and 1520-5762 (Online)	2.295	-
88.	Renuka Mishra Kripali Soni Tejal Mehta	Mucoadhesive vaginal film of fluconazole using cross-linked chitosan and pectin	Journal of Thermal Analysis and Calorimetry	130	1683-1695	12/2017	1388-6150 (Print) and 1588-2926 (Online)	1.953	-

89.	Anita K. Bakrania, Bhavesh C. Variya, Snehal S. Patel	DEAE-Dextran coated paclitaxel nanoparticles act as multifunctional nano system for intranuclear delivery to triple negative breast cancer through VEGF and NOTCH1 inhibition	European Journal of Pharmaceutics and Biopharmaceutics	122	37-48	10/2017	0939-6411	4.159	-
90.	Deepa K. Ingawale, Snehal S. Patel	Hecogenin exhibits anti-arthritis activity in rats through suppression of pro-inflammatory cytokines in Complete Freund's adjuvant-induced arthritis	Immunopharmacology and Immunotoxicology	1	1-13	12/ 2017	8923973	1.475	-
91.	Anita K. Bakrania, Bhavesh C. Variya, Snehal S. Patel	Role of b-Interferon Inducer (DEAE-Dextran) in Tumorigenesis by VEGF and NOTCH1 Inhibition along with Apoptosis Induction	Frontiers in Pharmacology	8	930-946	12/ 2017	1663-9812	4.4	-
92.	Vaishnav Mohak, Kothari Charmy, Shah Manan	Regulatory Technicalities for Drug Product Registration in Brazil	International Journal of Drug Regulatory Affairs	5(4)	18-25	12/2017	2321-7162 (Print) and 2321-6794 (Online)e)	0	-



93.	Krunal J. Prajapati, Charmy Kothari	Impurity Profile of Bronchodilators used in Asthma: A Critical Review	Current Drug Discovery Technologies	14 (3)	1-33	09/2017	ISSN (Print)1570-1638 ISSN (Online)1875-6220	0	-
94.	Palak K. Parikh, Manjunath D. Ghate	Recent advances in the discovery of small molecule c-Met Kinase inhibitors	European Journal of Medicinal Chemistry	143	1103-1138	01/2018	0009-4374 (print) and 0223-5234 (online)	4.519	-
95.	Tejal Rawal, Laurent Kremer, Iman Halloum, and Shital Butani,	Dry-Powder Inhaler Formulation of Rifampicin: An Improved Targeted Delivery System for Alveolar Tuberculosis	JOURNAL OF AEROSOL MEDICINE AND PULMONARY DRUG DELIVERY	30 (6)	388-398	12/ 2017	1941-2711 (Print) and 1941-2703 (online))	3.041	-
96.	Samir Rabadiya, Shraddha Bhadada, Ashvin Dudhrejiya, Devendra Vaishnav, Bhoomika M Patel	Magnesium valproate ameliorates type 1 diabetes and cardiomyopathy in diabetic rats through estrogen receptors	Biomedicine & Pharmacotherapy	97	919-927	01/2018	0753-3322	2.759	-
97.	Harshil Shah, Jignasa Savjani	Recent updates for designing CCR5 antagonists as anti-retroviral agents	European Journal of Medicinal Chemistry	147	115-129	01/ 2018	0009-4374 (print) and 0223-5234 (online)	4.519	-

98.	Surmil Shah, Bhumika Patel, Jignasa K. Savjani	Pharmacophore mapping based virtual screening, molecular docking and ADMET studies of ROCK II inhibitors	Multiple Sclerosis and Related Disorders	21	35-41	02/2018	2211-0348	2.349	-
99.	Tejal Rawal, Laurent Kremer, Iman Halloum, and Shital Butani	Dry-Powder Inhaler Formulation of Rifampicin: An Improved Targeted Delivery System for Alveolar Tuberculosis	Journal of aerosol medicine and pulmonary drug delivery	30 (6)	388-398	12/2017	1941-2711 (Print) ; 1941-2703 (Electronic )	3.041	-
100.	Bhumika D. Patel, Nidhi Choksi, Kinjal Patel and Qureshi Gulamnizami	3D-QSAR and Molecular Docking Studies of HIV-1 Entry Inhibitors Targeting GP120-CD4 Binding Site	Anti-Infective Agents	15	115-130	03/ 2017	2211-3525 (Print) and 2211-3533 (Online)	0	-
101.	Bhoomika M Patel	Sodium Butyrate Controls Cardiac Hypertrophy in Experimental Models of Rats	Cardiovascular Toxicology	18	1-8	02/ 2018	1530-7905 (Print) 1559-0259 (Online)	2.718	1

102.	Namdev L. Dhas, Ritu R. Kudarha, Niyati S. Acharya, & Sanjeev R. Acharya	Polymeric Immunon anoparticles Mediated Cancer Therapy: A Versatile Nanocarriers for Cell-Specific Cargo Delivery	Critical Reviews™ in Therapeutic Drug Carrier Systems	35 (1)	1-64	03/ 2018	0743-4863	5.367	-
103.	Gurpreet Kaur Sinhmar, Neel N. Shah, Nimitt V. Chokshi, Hiren N. Khatri & Mayur M. Patel	Process, optimization, and characterization of budesonide-loaded nanostructured lipid carriers for the treatment of inflammatory bowel disease	Drug Development and Industrial Pharmacy	Early Online	Early Online	02/ 2018	Print ISSN: 0363-9045 Online ISSN: 1520-5762	2.295	-
104.	S Prachi, C Komal, MJ Priti	Influence of Peroxide Impurities in Povidone on the Stability of Selected $\beta$ -Blockers with the Help of HPLC	AAPS PharmSciTech	18 (7)	2410-2417	12/2017	1530-9932 (Online)	2.451	-

105.	Priyal Barai, Nisith Raval, Sanjeev Acharya, Niyati Acharya	Bergenia ciliata ameliorates streptozotocin-induced spatial memory deficits through dual cholinesterase inhibition and attenuation of oxidative stress in rats	Biomedicine & Pharmacotherapy	102	966-980	06/ 2018	0753-3322 1950-6007	2.75	-
106.	Anita K. Bakrania, Bhavesh C. Variya, Snehal S. Patel	Insights from diversified anti-angiogenic models: Role of b-interferon inducer DEAE-Dextran	Pharmacological Reports	70	549-557	04/2018	1734-1140 (Print), 17341140 (online)	2.587	-
107.	Vishnu N Thakare, Rajesh R. Patil, Valmik D Dhakane, Manoj K Aswar, Bhoomika M Patel	Therapeutic potential of silymarin in chronic unpredictable mild stress induced depressive-like behavior in mice	Journal of Psychopharmacology	32	223-235	02/ 2018	0269-8811 (Print) 1461-7285 (Online)	4.179	-
108.	Vishnu N Thakare, Rajesh R. Patil, Valmik D Dhakane, Manoj K Aswar, Bhoomika M Patel	Therapeutic potential of silymarin in chronic unpredictable mild stress induced depressive-like behavior in mice	Journal of Psychopharmacology	32	223-235	02/ 2018	0269-8811 (Print) 1461-7285 (Online)	4.179	-

109.	Parmi Patel, Jigna Shah	Role of Vitamin D in Amyloid clearance via LRP-1 upregulation in Alzheimer's disease: A potential therapeutic target?	Journal of Chemical Neuroanatomy	85	36-42	11/ 2017	ISSN: 0891-0618	2.2	2
110.	Parmi Patel, Jigna Shah	Safety and Toxicological Considerations of Nanomedicines: The Future Directions	Current Clinical Pharmacology	12(2)	73-82	05/ 2017	ISSN: 2212-3938 (Online) ISSN: 1574-8847 (Print)	0	1
111.	Jha A., Panchal S	Neuroprotection and cognitive enhancement by treatment with oryzanol in sporadic Alzheimer's disease. Journal Applied biomedicine.	Journal of Applied Biomedicine	15(4)	265-281	11/ 2017	214-021X	1.6	-
112.	Mali PY, Panchal S.	Euphorbia Tirucalli: Review on botany ethnomedical uses phytochemistry and biological activities.	Asian Pacific Journal of Tropical BioMedicine.	10(5)	430-438	05/ 2017	1995-7645	0	-

113.	Rachna Kumria, Bandar E AI-Dhubiab, Jigar Shah, Anroop B Nair	Formulation and Evaluation of Chitosan-Based Buccal Bioadhesive Films of Zolmitriptan	Journal of Pharmaceutical Innovation	13	133-143	06/2018	1872-5120 (Print) and 1939-8042 (Online)	1.934	-
114.	Neha Pawar, Shital Panchal, Dhananjay Kawle, Chhaya Godgoli, Girish Maru	Evaluation of genotoxic and modulatory effects of Nyctanthes arbor-tristis calyx extract and the isolated crocin in Ames' assay	Natural Product Research	0	0	12/ 2017	1478-6427	1.928	1
115.	Panchal SS, Ghatak S, Jha A, Onnato R.	Reduction of liver tumorigenic effect of N-nitrosodiet hylamine by treatment with $\gamma$ -oryzanol in Balb/C mice.	Environmental Toxicology and Pharmacology	56	86-98	08/ 2017	1382-6689	2.77	1
116.	Vijay Kothari, Sakshi Sharma, Divya Padia	Recent research advances on Chromobacterium violaceum	Asian Pacific Journal of Tropical Medicine	10	744-752	08/ 2017	1995-7645	0	2

117.	Manoj Patidar, Naveen Yadav, and Sarat K. Dalai	Influence of Length and Amino Acid Composition on Dimer Formation of Immunoglobulin based Chimera	Current Pharmaceutical Design	24	1211-1223	12/ 2017	1873-4286	2.757	0
118.	Aditi Mohankrishnan, Rajesh Parmar, Vishakha Bhurani, and Sarat K. Dalai	Lack of TNF- $\alpha$ signaling through p53 makes the mice more susceptible to acute infection but does not alter state of latency and reactivation of HSV-1	Virus Research	244	1-5	01/2018	0168-1702	2.484	0
119.	Avani Darji, Nirav Desai, R. Modi, B. Khamar and Shalini Rajkumar	Establishment of cell line with NK/NKT phenotype from Myeloid NK cell acute leukemia	Leukemia Research	61	77-83	10/2017	0145-2126	2.319	0
120.	Rushika Patel, Purvi Zaveri & Nasreen S. Munshi	Microbial fuel cell, the Indian scenario: developments and scopes	Biofuels	8	1-8	12/ 2017	1759-7269	0.784	0
121.	Avani Darji, Kaushal A, Nirav Desai and Shalini Rajkumar	Natural Killer Cells: From Defense to Immunotherapy in Cancer	Journal of Stem Cell Research & Therapy	8(3)	419-422	03/ 2018	2157-7633	0	0

122.	Vijay Kothari, Chinmayi Joshi, Pooja Patel, Milan Mehta, Sashikant Dubey, Brijesh Mishra, Niral Sarvaiya	Influence of a mono-frequency sound on bacteria can be a function of the sound-level	Indian Journal of Science and Technology	11(4)	1-9	01/2018	0974-6846	0	0
	Behera Soma, Kapadia Bandish, Kain Vasundhara, Alamuru-Yellapragada Neeraja, Murunikkar a Vachana, Kumar Sireesh, Phanithi Prakash Babu, Seshadri Sriram, Shivarudraiah Prasad, Hiriyana Jagadhesha n, Gangula Narmadha, Maddika Subbareddy, Misra Parimal, Parsa Kishore VL	ERK1/2 activated PHLPP1 induces skeletal muscle ER stress through the inhibition of a novel substrate AMPK	BBA Molecular Basis of Disease	1864(5)	1702-1716	02/2018	0925-4439	5.108	0
123.	Ambreen Asim, Sarita Agarwal, Inusha Panigrahi, Nazia Saiyed, Sonal Bakshi	MTHFR promoter hypermethylation may lead to congenital heart defects in Down syndrome	Intractable & Rare Diseases Research	6(4)	295-298	11/ 2017	2186-3644	0	0



124.	Rajesh Parmar, Hardik Patel, Naveen Yadav, Ritika Parikh, Khyati Patel, Aditi Mohankrishnan, Vishakha Bhurani, Urja Joshi and Sarat Kumar Dalai	Infectious sporozoites of Plasmodium berghei effectively activate liver CD8 $\alpha$ + Dendritic cells	Frontiers in Immunology	9(192)	1-14	02/2018	1664-3224	6.429	1
125.	Prasant Kumar Jena, Bhumika Prajapati, Nidhi Nagar, Pradyumna Kumar Mishra, Sweta Patel, Dipeeka Mandaliya, Sriram Seshadri	Recombinant Lactobacillus helveticus PJ4-Down Regulates TLR4 Mediated Inflammatory Responses in Sucrose Induced Diabetic Rats: A Novel Therapeutic Approach	Research & Reviews: A Journal of Immunology	7(2)	44-65	03/2018	2277-6206	0	0
126.	Bhargava Arpit, Pathak Neelam, Seshadri Sriram, Bunkar Neha, Jain Subodh Kumar, Mishra Dinesh Kumar, Lohiya Nirmal Kumar, Mishra Pradyumna Kumar	Pre-Clinical Validation of Mitochondria-Targeted Nano-Engineered Flavonoids Isolated From Selaginella bryopteris (Sanjeevani) As A Novel Cancer Prevention Strategy	Anti-Cancer Agents in Medicinal Chemistry	18	1-15	01/2018	1875-5992	2.556	0

**National Journals**

Sr. No.	Name of Authors	Paper Title	Name of Journal	Vol. No.	Page No.	Month and Year of Publication	ISBN / ISSN No. of the Journal	Impact Factor	No. of Citations Received by the Paper
1.	Alpana Shukla, Mihir Rambhia, Gautam Dadhich, Shweta Sharma and P. R. Patel	Site suitability analysis for calibration of RISAT-1 SAR sensor using corner reflectors	Journal of Geomatics	Vol. 20	187-191	20/10/ 2017	ISSN: 09761330	-	-
2.	Patel, Ritesh Jayantibhai	Co-movement and integration among stock markets: A study of 14 countries.	Indian Journal of Finance	11	53-56	2017	0973-8711	0.32	6
3.	Patel, Ritesh, and Patel, Nikunj	Social and economic impact of microfinance on urban poor women: An empirical study of Ahmedabad city (India)	IIMS Journal of Management Science	8.2	110-121	2017	0976-030X	0.8	1
4.	Jain, Sanjay Kumar, and Jain. Rajesh Kumar	Evolution of GMP in Pharmaceutical Industry	Research Journal of Pharmacy and Technology	10.2	601-606	2017	09743618 (Print), and eISSN 0974360X (Online)	0.14	-
5.	Parashar, Sapna, and Jain, Sanjay	Effect of Demographics on Materialism: An Empirical Study	Pacific Business Review International	10.2	124-132	2017	0974-438X	6.56	1
6.	Panchal, Nilam, Poturaju, Vandana N. ; and Poturaju Naresh N.	Stock trading Strategies Shaping Investors Decision Making in Cash Market: A Literature Survey	International Journal of Research in Finance and Marketing	7.6	119-125	2017	ISSN : 2231-5985	6.522	
7.	Sinha, Anamika,	Professionalizing a Religio-centric Firm through Workplace Learning	Vikalpa	42.4	251-260	2017			

8.	Danak, Deepak; and Rajpurohi Punita	Branding and Firm's Financial Performance – Insights from the Consumer Goods Industry in India	Nirma University Journal of Business and Management Studies	1.1	21-38	2018	ISSN 2249-5630	-	-
9.	Sanjay Jain, Rajesh K. Jain	Investigation and CAPA: Quality system for continual improvement in pharmaceutical industry	International Journal of Research in Pharmacy and Pharmaceutical Sciences	2.6	47-54	2017	2455-698X	5.22 (RJIF)	-
10.	Anroop B Nair, Bandar E Al-Dhubiab, Jigar Shah, Mahesh Attimarad, Sree Harsha	Poly(lactic acid-co-glycolic acid) Nanospheres Improved the Oral Delivery of Candesartan Cilexetil	Indian Journal of Pharmaceutical Education and Research	51	571-579	October-December, 2017	0019-5464 (Print and online)	0.27	-
11.	Anita K Bakrania, Surender Nakka, Bhavesh C Variya, Prabodh V Shah & Snehal S Patel	Antitumor potential of herbomineral formulation against breast cancer: Involvement of inflammation and oxidative stress	Indian Journal of Experimental Biology	55	680-687	October, 2017	0975-1009 (Online); 0019-5189 (Print)	1.1	-
12.	Khushboo G. Faldu, Harika Duvva, Jigna S. Shah, Prabooth V. Shah1, Snehal S. Patel	An ayurvedic proprietary herbal preparation, Calci-7, prevents ovariectomy-induced osteoporosis in rats	AYU	37 (3-4)	250-255	July-December, 2018	ISSN: Print -0974-8520, Online - 0976-938	-	-

13.	Drasty Vora, Jigna Shah, Bhargav Maharaja	Quality of life assessment of oral cancer patients after mandibular resections using the University of Washington Quality of Life (Version 4) questionnaire: Reconstruction with pectoralis major myocutaneous flap	Clinical Cancer Investigation	6(2)	123-127	August, 2017	ISSN: Print -2278-1668, Online - 2278-0513	-	-
14.	Dr. Madhuri Parikh	Judicial Interpretation of Law of Public Nuisance for Environment Protection: A Critique	International Journal of Creative Research Thoughts	6		March 2018	2320-282	NA	NA
15.	Ms. Rejitha Nair	Basic income discourse in India form human rights perspective, policy review	Nirma University Law Journal (NULJ)	Vol. 6, Issue 2	85-100	July, 2017	2249-1430	NA	NA
16.	Dr. Shalini S.	Literature As a Pedagogical Tool For Human Resource Management, Corporate Training and Development	Journal of English Literature and Language (JELL)	Vol. XI, Number 2	50-59	June 2017	0975-690	NA	NA

### E-Journals

Sr. No.	Name of Authors	Paper Title	Name of Journal	Vol. No.	Page No.	Month and Year of Publication	ISBN / ISSN No. of the Journal	Impact Factor	No. of Citations Received by the Paper
1.	Gautam Dadhich, Parul R. Patel, M.H. Kalubarme and Manoj Pandya	Development of decision support system for land suitability evaluations for crops using ICT tools	Engineering and Technology in India	8, Issue 1&2	65-70	April & October, 2017	e ISSN- 2230-9284	-	-

2.	Jain S, Tanwar S, Singh P K,	Energy Optimization in Smart Grid using Tensor Decomposition	International Journal of Computer Sciences and Engineering,	05	192- 196	November 2017	347-2693	-	-
3.	Oza J, Narmawala Z, Tanwar S, Singh P K,	Public Transport Tracking and its Issues	International Journal of Computer Sciences and Engineering,	05	178- 182,	November 2017	347-2693	-	-
4.	Zunnun Narmawala	Proximity and Community Aware Heterogeneous Human Mobility (P-CAHM) model for Mobile Social Networks (MSN)	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering	Volume 220	137- 146	January 2018	ISSN: 1867- 8211	Scopus Source Normalized Impact Factor (SNIP): 0.215	0
5.	Jigna Ashish Patel	Efficient computing of OLAP in Big data warehouse	International Journal of Advance Research in Computer Science	9(issue- 1)	266- 269	February 2018	ISSN No. 0976-5697	ICV 2015: 65.64 SJIF: 5.845 ISRAJI F: 3.727 RGIF: 0.29 GIF: 0.765	0
6.	Tanwar S, Tyagi S, Kumar N & M.S. Obaidat,	Learning Automata Based Multi-level Heterogeneous Routing for Opportunistic Shared Spectrum Access to Enhance Lifetime of WSN	IEEE Systems Journal	-	1-11	April 2018	Print ISSN: 1932-8184	(SCI, Impact Factor: 4.337- as per Thomson Reuter)	2

7.	S. Banarjee, V. Odelu, A. K. Das, S. Chattopadhyay, N. Kumar, Y. Park, S. Tanwar,	Design of an Anonymity-Preserving Group Formation Based Authentication Protocol in Global Mobility Networks",	IEEE ACCESS	6 (1)	20673 - 20693	April 2018	2169-3536	(SCI, Impact Factor: 3.557- as per Thomson Reuter)	-
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### Conference Proceedings

Sr. No.	Name of Authors	Paper Title	Name of Conference	Page No.	Month and Year of Conference	ISBN / ISSN No. of the Journal
1.	Nikita P. Chokshi, Meet Kundariya, Jay Patel, J. P. Ruparelia	Co3O4/ $\gamma$ -Al2O3 as a heterogeneous catalyst for ozonation of dye wastewater	RAFTCT-17 Nirma University	09/2017	-	-
2.	Narasimha Reddy Ravuru, Sanjay Patel	Renewable Hydrogen generatio via steam refoing of glycerol over magnesium based catalysts	RAFTCT-17 Nirma University	09/2017	-	-
3.	Narasimha Reddy Ravuru, Sanjay Patel	Clean Energy hydrogen production by Steam reforming of biodiesel By-product using Nickle-based Catalysts with different supports	RAFTCT-17 Nirma University	09/2017	-	-
4.	Dr. Ankur Pandya, S G Pillai, Dr. Ankur Dwivedi, P. K. Jha	Carrier Mobility Study in Zinc doped Armchair Graphene Nanoribbon via Phonon Interactions	RAFTCT-17 Nirma University	09/2017	-	-
5.	Dr. Ankur Dwivedi, Darshit Desai, Deepesh Agarwal	Implementation of FDM technology in MALE UAVs	RAFTCT-17 Nirma University	09/2017	-	-
6.	Dr. Ankur dwivedi, Dr. Shibu Pillai	Natural indicators	National Seminar on Advancements in Chemical Technology-A Green Perspective, Department of Industrial Chemistry, ISTAR, Vallabh Vidyanagar, Anand, Gujarat	01/2018	-	-

7.	A. Chaudhary and A.N. Bhaskarwar	High selectivity of CO <sub>2</sub> in a low- cost green solvent	National Conference on "Environmental Challenges for New India" organized by ESDA in collaboration with Dr. Bhim Rao Ambedkar College, CSIR-NEERI, and NESI, Delhi.	06/2018	-	-
8.	Neha Patni, Shibu G. Pillai	Comparative study of electrolytes used in the synthesis of cocktail dye based dye sensitized solar cells	International Conference on Energy and Infrastructure Management, ICEIM 2018, SPM, PDP, Gandhinagar	228-233	02/2018	978-93-86724-49-6
9.	Jay Ranparia and Rajubhai Kanaiyalal Mewada	Fresnel Lens as a Solar Collector for various Thermal Energy Applications	NUiCONE 2017 organized by Institute of Technology, Nirma University, Ahmedabad	11/2017	-	-
10.	Krunal Suthar and M H Joshipura	Studies on activity models to predict LLE for biodiesel system	NUiCONE 2017 organized by Institute of Technology, Nirma University, Ahmedabad	11/2017	-	-
11.	Neha Patni, Pooja Shah	Automation of process evaluation of Saccharification of wheat starch followed by fermentation of glucose to prepare Bioethanol using Digital Image Processing	International Conference on Information and Communication Technology for Intelligent Systems	04/2018	-	-
12.	H.M. Rangwala, H. M. Kamplimath, A. Kanara, M. Ratlami, M. Kothari & M. Khatri	Effect of Randomly Distributed Jute Fibers on Design of Soil Subgrade	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
13.	Tirth N. Doshi, Urmil V. Dave & Tejas M. Joshi	Comparative Study of Mechanical Properties of Concrete using Waste Foundry Sand	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-

14.	R. S. Anjaria & U. V. Dave	Comparitive Study of Compressive Strength and Durability Properties of Binary, Ternary and Quaternary Mortar	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
15.	Fernanda Belforti, Peiman Azarsa, Dr. Rishi Gupta, Dr.Urmil Dave	Effect of Freeze-Thaw on K-based Geopolymer Concrete and Portland Cement Concrete	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
16.	M.D. Patel, U.V. Dave & R. Gupta	Case Study of a Pavement of Alkali Activated Concrete Paver Blocks at Nirma University Campus	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
17.	A.A. Jadeja & Dr. U.V. Dave	Investigation on Mechanical Properties of Crushed Sand Concrete	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
18.	Gautam Dadhich, Parul R. Patel	Farm Level Land Suitability Assessment for wheat and Mustard Crops Using Geomatics: A Case Study of Badipur Village of Patan District, Gujarat	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
19.	Eesh Kumar Taneja, Tejas M. Joshi & Dr. Urmil Dave	Evaluation of Mechanical Properties and light transmission of Light transmitting Concrete	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
20.	Md Rihan Maaze	Structural Performance of Corroded Beams Repaired with FRP Sheets	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
21.	D.K. Parekh & S.P. Purohit	Development of Fragility Curves for Reinforced Concrete Building	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	9781138560420
22.	Jahanvi M. Suthar & Stuti M.Patel	Seismic Performance Evaluation of RC frame using Incremental Dynamic Analysis	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
23.	P.J. Shah, P.V. Patel, S.D. Raiyani	Effect of Temperature on the Tensile strength of Stainless Steel Wire Mesh and Fiber Reinforced Polymers	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-



24.	Vineet Kothari	Experimental Study of Seismic Response of different Structural Systems	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
25.	Kushal Parikh, Paresh V. Patel & Sharadkumar P. Purohit	Parametric Study of Multi-Storey Building incorporating Buckling Restrained Braces	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	9781138560420
26.	Sonal Thakkar, Praharshit Joshi	Parametric Study of Geopolymer Concrete with Fly ash and Bottom ash activated with Potassium Activators	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
27.	Deep Modi, Paresh V. Patel, Digesh Joshi	Study of Shear Lag Effect in Hybrid Structural System for High Rise Building	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
28.	Arth Patel, Rutvik Sheth	Development of Design Aid for Non-Rectangular Reinforced Concrete Column- C Shape	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	-
29.	J. M. Popat, T. H. Bhoraniya, S. P. Purohit & S. A. Sharma	Experimental Investigation of Reinforced Concrete Infill Frames under Pseudo Dynamic Loading	6TH Nirma University International Conference On Engineering (Nuicone 2017)	-	November 23-25, 2017	9781138560420
30.	A.A. Jadeja & Dr. U.V. Dave	Investigation on Mechanical Properties of Crushed Sand Concrete	6TH nirma university international conference on engineering (nuIcOne 2017)	-	November 23-25, 2017	-
31.	Gautam Dadhich, Parul R. Patel	Farm Level Land Suitability Assessment for wheat and Mustard Crops Using Geomatics: A Case Study of Badipur Village of Patan District, Gujarat	6TH nirma university international conference on engineering (nuIcOne 2017)	-	November 23-25, 2017	-
32.	Eesh Kumar Taneja, Tejas M. Joshi & Dr. Urmil Dave	Evaluation of Mechanical Properties and light transmission of Light transmitting Concrete	6TH nirma university international conference on engineering (nuIcOne 2017)	-	November 23-25, 2017	-

33.	Anant Patel, Ujas Pandya, Dr. Dhruvesh Patel	River Cross Section Delineation From The Google Earth For Development Of 1D HEC-RAS Model – A Case Of Sabarmati River, Gujarat, India	22nd International Conference on “Hydraulics, Water Resources and Coastal Engineering HYDRO-2017”	-	21-23 December, 2017	-
34.	Tirth N. Doshi ,Tejas M. Joshi and Dr. Urmil Dave	Effect of Waster Foundry Sand on Durability Properties Of Concrete	33 <sup>rd</sup> National Convention of Civil Engineers on “Recent Advances in Structural Engineering”	-	2-3 September, 2017	-
35.	Sonal P Thakkar and Daxesh Patel	Mixture design of fly ash & Slag Based Alkali Activated Concrete for Precast Concrete	33 <sup>rd</sup> National Convention of Civil Engineers on “Recent Advances in Structural Engineering”	-	2-3 September, 2017	-
36.	Parth Patel, Tejas M. Joshi and Dr. Urmil Dave	Evaluation of Durability Properties of Recycled Aggregate Concrete Incorporating Fly ash and Silica Fume	33 <sup>rd</sup> National Convention of Civil Engineers on “Recent Advances in Structural Engineering”	-	2-3 September, 2017	-
37.	Akshay Dhariwal and Sunil Raiyani	Flexural Behaviour of Ferrocement Strengthened Reinforced Concrete Beams	33 <sup>rd</sup> National Convention of Civil Engineers on “Recent Advances in Structural Engineering”	-	2-3 September, 2017	-
38.	Mit Rami and Dr. Urmil Dave	Restoration of Fire Damaged RC Beams using Carbon Fiber Reinforced Polymer Wrapping	33 <sup>rd</sup> National Convention of Civil Engineers on “Recent Advances in Structural Engineering”	-	2-3 September, 2017	-
39.	Dr. P.V. Patel and S.D. Raiyani	Flexural Strengthening of Reinforced Concrete Beam Using Stainless Steel Wire Mesh	33 <sup>rd</sup> National Convention of Civil Engineers on “Recent Advances in Structural Engineering”	-	2-3 September, 2017	-

40.	Karishma Chitnis and Dr. A.K. Khambete	Determining WWQI or Common Effluent Treatment plant using TOPSIS approach	International Conference on Desalination (InDACon-2018) - Clean India Technologies, Role of Desalination And Swachh Bharat Mission	-	April 20-21, 2018	-
41.	Prince Adani, Vidit Shah, Maulik Prajapati, Vasu Patel, Snehil Mehta and Rihan Maaze	Seismic Analysis of Stepback and Setback-Stepback Buildings	Parul University 1st International Conference on Engineering and Technology: Smart Engineering	99-105	16-17th February, 2018	978-93-87572-66-9
42.	Hiral Modha, Aditya Bakarania, Deep Dobaria, Poojan Manhadevia	Improvement of Subgrade soil using Coir fiber and Blasting sand: An experimental study	1st International conference on Engineering and Technology: Smart Engineering (PiCET-2018)	139-144	16-17th February, 2018	978-93-87572-66-9
43.	Harshit K Kothari, Paresh V. Patel and Digesh D Joshi	Behavior of Precast Portal Frame Subjected to Lateral Loading: An Experimental Study	Advances in Concrete, Structural and Geotechnical Engineering	246 - 251	2018	978-93-87471-69-6
44.	Paresh V. Patel and Sunil D Raiyani	Shear Strengthening of RC Beam using Stainless Steel Wire Mesh	Advances in Concrete, Structural and Geotechnical Engineering	452 - 457	2018	978-93-87471-69-6
45.	V.K. Singh and Paresh V. Patel	Strengthening of Axially Loaded Circular Concrete Column using Stainless Steel Wire Mesh (SSWM) - Experimental Investigation, Analytical Approach and Installation Guidelines	Advances in Concrete, Structural and Geotechnical Engineering	843 - 848	2018	978-93-87471-69-6
46.	Mayur Patel, Kush Patel, Akshay Patel, Ronak Prajapati, Vipul Vaniya and Utsav Koshti	Study of Sawdust Concrete Blocks Properties as Construction Materials	Advances in Concrete, Structural and Geotechnical Engineering	403 - 405	2018	978-93-87471-69-6
47.	D. Mehta, P.V. Patel and H.M. Rangwala	Computer Aided Design of Piled Raft Foundation for a G+40 Building	International Conference on Advances in Construction Materials and Structures	CD-ROM Proceedings	March 07-08	CD-ROM Proceedings

48.	Tirth N. Doshi, Tejas M. Joshi and Dr. Urmil Dave	Effect of Waste Foundry Sand on Durability Properties Of Concrete	National Convention of Civil Engineers on "Recent Advances in Structural Engineering, The Institution of Engineers (India)	CD-ROM Proceedings	2-3 September, 2017	CD-ROM Proceedings
49.	Sonal P Thakkar and Daxesh Patel	Mixture design of fly ash & Slag Based Alkali Activated Concrete for Precast Concrete	National Convention of Civil Engineers on "Recent Advances in Structural Engineering, The Institution of Engineers (India)	CD-ROM Proceedings	2-3 September, 2017	CD-ROM Proceedings
50.	Parth Patel, Tejas M. Joshi and Dr. Urmil Dave	Evaluation of Durability Properties of Recycled Aggregate Concrete Incorporating Fly ash and Silica Fume	National Convention of Civil Engineers on "Recent Advances in Structural Engineering, The Institution of Engineers (India)	CD-ROM Proceedings	2-3 September, 2017	CD-ROM Proceedings
51.	Akshay Dhariwal and Sunil Raiyani	Flexural Behaviour of Ferrocement Strengthened Reinforced Concrete Beams	National Convention of Civil Engineers on "Recent Advances in Structural Engineering, The Institution of Engineers (India)	CD-ROM Proceedings	2-3 September, 2017	CD-ROM Proceedings
52.	Mit Rami and Dr. Urmil Dave	Restoration of Fire Damaged RC Beams using Carbon Fiber Reinforced Polymer Wrapping	National Convention of Civil Engineers on "Recent Advances in Structural Engineering, The Institution of Engineers (India)	CD-ROM Proceedings	2-3 September, 2017	CD-ROM Proceedings
53.	Dr. P. V. Patel and S. D. Raiyani	Flexural Strengthening of Reinforced Concrete Beam Using Stainless Steel Wire Mesh	National Convention of Civil Engineers on "Recent Advances in Structural Engineering, The Institution of Engineers (India)	CD-ROM Proceedings	2-3 September, 2017	CD-ROM Proceedings

54.	M. Gor, J. Vora, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat & B. Sadoun,	GATA: GPS-Arduino Based Tracking and Alarm System for Protection of Wildlife Animals	International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2017),	166-170	July 2017	978-1-5090-5957-7
55.	Tanwar S, P. Patel, K. Patel, S. Tyagi, N. Kumar, M. S. Obaidat	An Advanced Internet of Thing based Security Alert System for Smart Home	International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2017),	166-170	July 2017	978-1-5090-5957-7
56.	Pooja Shah, Tanish Zaveri, Rajkumar, Shubham Sharma, Darshan Patel	Research oriented foss solution for automatic oil spill detection using risat-1 sar data	IEEE Geoscience and Remote Sensing Symposium 2017	3121 - 3124	July 2017	978-1-5090-4951-6
57.	Saurin Parikh	Predicting Information Context Processing from Eye Movements	19th European Conference on Eye Movements (ECEM), Germany	1-4	August 2017	1995-8692
58.	Tanwar S, Vora J, Kaneriya S & Tyagi S,	Fog based Enhanced Safety Management System for Miners	3rd International Conference on Advances in Computing, Communication & Automation, (ICACCA-2017),	1-5	September 2017	978-1-5090-6403-8
59.	Srivastava A, Singh S K, Tanwar S & Tyagi S,	Suitability of Big Data Analytics in Indian Banking Sector to Increase Revenue and Protability",	3rd International Conference on Advances in Computing, Communication & Automation, (ICACCA-2017),	1-5	September 2017	978-1-5090-6403-8
60.	Vora J, Tanwar S, Tyagi S, Kumar N & Rodrigues J P C,	Home-based Exercise System for Patients Using IoT Enabled Smart Speaker	IEEE 19th International Conference on e-Health Networking, Applications and Services (Healthcom-2017)	1-6	October 2017	978-1-5090-6704-6

61.	Vora J, Tanwar S, Tyagi S, Kumar N & Rodrigues J P C,	FAAL: Fog Computing-based Patient Monitoring System for Ambient Assisted Living	IEEE 19th International Conference on e-Health Networking, Applications and Services (Healthcom- 2017)	1-6	October 2017	978-1-5090- 6704-6
62.	Verma S, Tanwar S, & Tyagi S	Two Hop Clustering Approach in Wireless Mesh Network by Using Energy Harvesting	2nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE-2017)	-	November 2017	will be published in Advances in Intelligent Systems and Computing (AISC) series of Springer, Indexing in SCOPUS
63.	Vora J, Patel M, Tanwar S, Tyagi S,	Image Processing Based Analysis of Cracks on Vertical Walls	IEEE 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT- SIU 2018),	-	February 2018	978-1-5090- 0785-5
64.	Vora J, Kaneriya S, Tanwar S, Tyagi S,	Performance Evaluation of SDN based Virtualization for Data Center Networks	IEEE 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT- SIU 2018)	-	February 2018	978-1-5090- 0785-5
65.	Mewada A, Tanwar S & Narmawala Z,	Comparison and Evaluation of Real Time Reservation Technologies in the Intelligent Public Transport System",	International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)	-	February 2018	Will be indexed in Springer CCIS Series, Springer International Publishing and Scopus
66.	Prasad V K, Tanwar S & Bhavsar M	Load Harmonisation at an Iaas level of Cloud Computing	International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)	-	February 2018	Will be indexed in Springer CCIS Series, Springer International Publishing and Scopus
67.	Trivedi H, Tanwar S & Thakkar P	Software Dened Network- based Vehicular Adhoc Networks for Intelligent Transportation System: Recent Advances and Future Challenges	International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)	-	February 2018	Will be indexed in Springer CCIS Series, Springer International Publishing and Scopus

68.	Vishal Parikh, Priyanka Sharma, Vedang Shah & Vijay Ukani	Optimal Camera Placement for Multimodal Video Summarization	International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)	-	February 2018	Will be indexed in Springer CCIS Series, Springer International Publishing and Scopus
69.	Jai Prakash Verma, Sapan H Mankad, Sanjay Garg	Big Data Analytics: Performance Evaluation for High Availability and Fault Tolerance using MapReduce Framework with HDFS	International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)	-	February 2018	Will be indexed in Springer CCIS Series, Springer International Publishing and Scopus
70.	Vivek K Prasad, Sudeep Tanwar & Madhuri Bhavsar	Load Harmonisation at an Iaas level of Cloud Computing	International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)	-	February 2018	Will be indexed in Springer CCIS Series, Springer International Publishing and Scopus
71.	Neha Patni, Pooja Shah, Vinit Shah, Jayneel Vora	Automation of Process Evaluation of Saccharification of Wheat Starch Followed by Fermentation of Glucose to Prepare Bioethanol using Digital Image Processing	International Conference on Information and Communication Technology for Intelligent Systems - 2018	-	April 2018	will be published in springer and indexed by scopus
72.	Maitri Shah, Pimal Khanpara	Survey Of Techniques Used for Tolerance of Flooding Attack in DTNs	International Conference on Information and Communication Technology for Intelligent Systems - 2018	-	April 2018	Will be published in springer and indexed by scopus
73.	Preeti Kathiria	Study of Different Document Representation Models for Finding Phrase Based Similarity.	International Conference on Information and Communication Technology for Intelligent Systems - 2018	-	April 2018	will be published in springer and indexed by scopus
74.	Kaneriya S, Tanwar S, Buddhadev S, Verma J P, Tyagi S, Kumar N, Misra S	A Range-based approach for Long-Term Forecast of Weather Using Probabilistic Markov Model	IEEE International Conference on Communication (IEEE ICC- 2018)	1-6	May 2018	978-1-5386- 4328-0
75.	Vanzara R K, Thakkar M, Sharma, Tanwar S, Tyagi S	TCP-EXPO: Empirical Approach to Transport Layer Protocol for High-Speed Networks	IEEE International Conference on Communication (IEEE ICC- 2018)	1-6	May 2018	978-1-5386- 4328-0

76.	Pruthvi Patel, Pimal Khanpara, Jitali Patel	A survey on security issues in MANETs	International Conference on Recent Innovations in Applied Science, Engineering and Technology	146-155	June 2018	987-93-87793-30-2
77.	Preeti Kathiria	Study of Various Methods Used in Reverse Engineering	3rd International Conference on New Frontiers of Engineering, Science, Management and Humanities	412-414	June 2018	978-93-87433-29-8
78.	Bhavin Kakani	Improved OCR based Automatic Vehicle Number Plate Recognition using Features Trained Neural Network	8 <sup>th</sup> International Conference on Computing, Communication and Networking Technologies	NA	03/07/2017	--
79.	Amisha Naik	Design and Development of Position Sensitive Detector for Hard X-Ray Using Sipi And New-Generation Scintillators	SPIE Optical Engineering Applications	NA	06-10/08/2017	--
80.	Dhaval Pujara	Suppression of Mutual Coupling in Wideband Fractal Tetrahedron DRA for MIMO Applications	Asia Pacific Microwave Conference	NA	13/11/2017	--
81.	Dhaval Pujara	U-Band Hybrid Corrugated Horn: An Alternative to the Conventional Radial Corrugated Horns	Asia Pacific Microwave Conference	NA	13/11/2017	--
82.	Vaishali Dahre Usha Mehta	Single Missing Cell Deposition Defect Analysis of Sequential Reversible Circuit	Nirma University International Conference on Engineering (NUiCONE)	NA	23-25/11/2017	--
83.	Kartik Madhira, Jignesh Patel, Dilip Kothari, Dipesh Panchal, Dhruv Patel	A Quantitative Study of Mapping and Localization Algorithms on ROS Based Differential Robot	Nirma University International Conference on Engineering (NUiCONE)	NA	23-25/11/2017	--
84.	Bhavesh Jaiswal, Nagendra Gajjar	Deep Neural Network Compression via Knowledge Distillation for Embedded Applications	Nirma University International Conference on Engineering (NUiCONE)	NA	23-25/11/2017	--
85.	Gupta Jay, Sänket Chaudhary, Dhaval A. Pujara	Performance Comparison of A Corrugated Horn With A Spline Profile Horn For Plasma Diagnostics	Nirma University International Conference on Engineering (NUiCONE)	NA	23-25/11/2017	--



86.	Khyati Vachhani	Reconfigurable Cellular GSM Network using USRP B200 and OpenBTS for Disaster - Hit Regions	13 <sup>th</sup> IEEE Malaysia International Conference on Communications (MICC)	NA	28-30/11/2017	--
87.	Sachin Gajjar	High Speed SRT Divider for Intelligent Embedded System	International Conference on Soft Computing and its Engineering Applications	NA	01-02/12/2017	--
88.	Amisha Naik	Characterization of Low Power - Low Jitter Digital PLL	International Women in Engineering (WIE) Conference on Electrical and Computer Engineering	NA	18-19/12/2017	--
89.	Akash Mecwan	Design and Implementation of Enhanced DC Motor Driver	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing	NA	28-29/01/2018	--
90.	Akash Mecwan	Coordinate Tracking and Path Planning in Holonomic Drive with Rotary Encoders	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing	NA	28-29/01/2018	--
91.	Sachin Gajjar	Computational Intelligence in Embedded System Design: A Review	Springer Smart Innovation, Systems and Technologies (SIST) Series, Springer Publications	NA	06-07/04/2018	--
92.	Tanish Zaveri	Development of low cost embedded vision system with a case study on 1-D barcode detection	3 <sup>rd</sup> International Conference on Information and Communication Technology For Intelligent Systems	NA	6-7/04/2018	--
93.	Usha Mehta	Novel Countermeasure against Differential Scan Attack AES Algorithm	22 <sup>nd</sup> International Symposium on VLSI Design and Test	NA	28-30/05/2018	--

94.	Prof. P. N. Tekwani	Analysis of carrier offset technique used in a five-level inverter scheme with emphasis on dc-link capacitor voltage balancing	proc. of 6th Nirma University International Conference on Engineering (NUiCONE 2017)	-	November 2017	-
95.	Prof. P. N. Tekwani	Design and implementation of solar pumping system with induction motor and submersible pump	proc. of 6th Nirma University International Conference on Engineering (NUiCONE 2017)	-	November 2017	-
96.	Prof. M. T. Shah	Simulation Analysis Of Voltage Balancing Scheme Using Multicarrier Techniques For Three Phase Three-Level Flying-Capacitor (Fc) Front-End Converter	proc. of 6th Nirma University International Conference on Engineering (NUiCONE 2017)	-	November 2017	-
97.	Siddharthsingh K. Chauhan, P. N. Tekwani	Simulation as-well-as Experimental Investigations on T-Type NPC Topology based Three-Level Shunt Active Power Filter	IEEE International Conference on Technological Advancements in Power and Energy (TAP Energy 2017)	-	-	December 2017
98.	Chintan R. Mehta, Santosh C. Vora	Short Circuit Behavior of Various Types of Asynchronous and Synchronous Generators in Multiple Machine System	International Conference on Advances in Science & Technology (ICAST 2018)	-	-	May 2018
99.	D. M. Adhyaru, Ravi Gandhi	Simplified Takagi-Sugeno Fuzzy Regulator Design for Stabilizing Control of Electromagnetic Levitation System	First International Conference on Innovations in Infrastructure (ICIIF), At IITRAM, Ahmedabad, India	--	May 2018	--
100.	D. M. Adhyaru Ravi Gandhi	Modeling of Current and Voltage Controlled Electromagnetic Levitation System based on Novel Approximation of Coil Inductance	4th International Conference on Control, Automation and Robotics, At New Zealand	212-217	April 2018	978-1-5386-6339-4
101.	D. M. Adhyaru Ravi Gandhi	Pre-Fuzzy-PID Controller for Effective Control of Electromagnetic Levitation System.	Indian Control Conference, 2018 at IIT, Kanpur.	113-118	8 <sup>th</sup> March, 2018	978-1-5386-2904-8

102.	H. K. Kapadia Tanish Zaveri	Development of low cost embedded vision system with a case study on 1-D barcode detection	3 <sup>rd</sup> International Conference on Information and communication technology for intelligent systems, Ahmedabad	--	6 <sup>th</sup> -7 <sup>th</sup> April 2018	--
103.	H. K. Kapadia J. B. Patel P. V Patel	An improved image pre-processing method for concrete crack detection	International Conference on ISMAC in Computational Vision and Bio-Engineering (ISMAC- IoT, Social, Mobile, Analytics, Cloud)	--	16 <sup>th</sup> -17 <sup>th</sup> May 2018	--
104.	S. A. Mehta	AGWallP - Automatic Guided Wall Painting System	Nirma University International Conference on Engineering (NUiCONE)	--	23 <sup>rd</sup> -25 <sup>th</sup> November 2017	978-1-5386-1748-9
105.	J. B. Patel D. K. Kothari Dipesh Panchal	A Quantitative Study of Mapping and Localization Algorithms on ROS based Differential Robot	Nirma University International Conference on Engineering (NUiCONE)	--	23 <sup>rd</sup> -25 <sup>th</sup> November 2017	978-1-5386-1748-9
106.	A. I. Patel J. B. Patel	Parametric Analysis of Quadruple Conical Tank System	Nirma University International Conference on Engineering (NUiCONE)	--	23 <sup>rd</sup> -25 <sup>th</sup> November 2017	978-1-5386-1748-9
107.	Vivek K Prasad and MadhuriBhavsar	Exhausting Autonomic Techniques for Meticulous Consumption of Resources at an IaaS layer of cloud computing.	International conference on future internet technologies and trends, SVNIT, Surat ,Gujarat	37-46	01/09/2017	978-3-319-73712-6
108.	Vivek K Prasad and MadhuriBhavsar	Efficient Resource Monitoring and Prediction Techniques in an IaaS level of Cloud Computing.	International conference on future internet technologies and trends, SVNIT, Surat ,Gujarat	47-55	01/09/2017	978-3-319-73712-6
109.	Riddhi Thakkar, Rinni Trivedi, Dr.MadhuriBhavsar	Experimenting with Energy Efficient VM migration in IaaS Cloud: Moving towards Green Cloud	International conference on future internet technologies and trends,	56-65	01/09/2017	978-3-319-73712-6

110.	VivekKumar Prasad, Mehta Harshil, GajreParimal, Sutaria, Vidhi, Dr.MadhuriBhavsar	Capacity Planning through Monitoring of Context Aware Tasks at IaaS level of Cloud Computing	International conference on future internet technologies and trends, SVNIT, Surat ,Gujarat	66-74	01/09/2017	978-3-319-73712-6
111.	Ruchi Mehta, Jitendra Bhatia, Dr.Madhuri Bhavsar	Variants of Software Defined Network(SDN) Based Load Balancing In Cloud Computing: A Quick Review.	International conference on future internet technologies and trends, SVNIT, Surat ,Gujarat	164-173	02/09/2017	978-3-319-73712-6
112.	Dr.Madhuri Bhavsar	Software Defined Networking From Theory to Practice	International Conference on Futuristic Trends in Network and Communication Technologies. (FTNCT-2018) , Jaypee University of Information Technology, P. O. Wagnaghat, Via Kandaghat, District Solan-173234, Himachal Pradesh, INDIA	-	9 <sup>th</sup> -10 <sup>th</sup> February, 2018	
113.	Tejal Upadhyay	Classification of Blood Cancer and form associated Gene networks using Gene Expression Profiles	International Conference on ICT using Intelligent Systems (ICTIS 2018), Hotel Pride Plaza, Ahmedabad	-	April 6-7, 2018	-
114.	Dvijesh Bhatt, Malaram Kumhar and Daiwat Vyas	Swine Flu Prediction Using Machine Learning	International Conference on ICT using Intelligent Systems (ICTIS 2018), Hotel Pride Plaza, Ahmedabad	-	April 6-7, 2018	-
115.	Sapan H Mankad	Detection of Mimicry Attacks on Speaker Verification system for Cartoon Characters Dataset	International Conference on ICT using Intelligent Systems (ICTIS 2018), Hotel Pride Plaza, Ahmedabad	-	April 6-7, 2018	-

116.	Sapan H Mankad	On the Performance of Cepstral features for Voice based Gender Recognition	International Conference on ICT using Intelligent Systems (ICTIS 2018), Hotel Pride Plaza, Ahmedabad	-	April 6-7, 2018	-
117.	Parita Oza	Homomorphic Cryptography and its applications in various domain	International Conference On Innovative Computing And Communication (Icicc-2018), Guru Nanak Institute Of Management, New Delhi	-	May 5-6,,2018	-
118.	Chandan Trivedi	Irregularity Detection in Clinical Data of Patients Encountering Heart Surgery	2nd International Conference on Innovative Trends in Engineering, Applied Science and Management, (ICITEASM), 2018, Osmania University Hyderabad	331-339	20th May, 2018	ISSN 2347 – 8616
119.	Dr. Jaiprakash Verma	A range based approach for long term forecast of weather using probabilistic markov model	IEEE-ICC2018, Kansas City, MO USA	--	20-24 May, 2018	2474-9133
120.	Usha Patel	Hardware Implementation of Public Key Cryptography for Small Scale Devices	International Conference On Innovative Computing And Communication	-	May 5-6,,2018	-
121.	Usha Patel	A Survey on Intelligent Face Recognition System	International Conference on 2018 ISMAC - CVB in Computational Vision and Bio-Engineering	-	May 16-17, 2018	-
122.	Dr. Rajesh N Patel, Prof D S Upadhyay	Thermodynamic Analysis of Lignite Gasification in the Downdraft Gasifier	Second International Conference on Sustainable Energy and Environmental Challenges (SEEC-2018), IISC	-	2018	-

123.	Dr. Kaushik Mithabhai Patel, Dr B K Mawandiya, Dr M A Makhesana	Experimental Investigations on the Effect of Process Parameters with the use of Minimum Quantity Solid Lubrication in Turning	American Institute of Physics	-	2018	978-0-7354-1638-3
124.	Dr K M Patel, Prof M A Makhesana,	Experimental Investigation of temperature produced During Turning Operation using solid lubricants	NUiCONE 17	-	2017	-
125.	Dr K M Patel, Prof M A Makhesana, Prof A S Patel	Modelling and Analysis of Surface Roughness in turning operation using Minimum Quantity Solid Lubrication	NUiCONE 17	-	2017	-
126.	Dr K M Patel, Dr S J Joshi, Prof D B Shah	Effect of Laser Engraving on L-Shaped CFRP Components during Curing Process	Nuicone-2017	-	2017	-
127.	Dr K M Patel, Dr S J Joshi, Prof D B Shah	Determination of Cure Kinetics Parameters for CFRP Composites Using Differential Scanning Calorimetry (DSC)	ICCMS-2017	-	2017	-
128.	Dr. Bharatkumar Amrutlal Modi, Dr A M Gohil	Formability of AA1050-O in forming variable angle cone shaped component using SPIF	NUiCONE-2017	-	2017	-
129.	Dr S J Joshi, Prof D B Shah	Investigation on Dimensional Accuracy for CFRP Reflector Manufacturing Techniques	ICCMS-2017	-	2017	-
130.	Dr R R Trivedi, Dr H M Prjapati	Design of Cost Effective Fly Ash Brick Manufacturing Machine	NUiCONE 17	-	2017	-
131.	Dr B K Mawandiya	Effect of Surface Roughness on Working of Electromagnets	NUiCONE 2017	-	2017	-
132.	Dr B K Mawandiya	Comparison of effectiveness of oil-jet lubrication systems for ball bearings	NUiCONE 2017	-	2017	-
133.	Dr. A M Lakdawala	Dual-Grid Level Set Method Based CMFD Application for Solving Casting Filling and Solidification Process	ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2017), BITS Pilani, Hyderabad	-	2017	-
134.	Dr. Sanjay V Jain	Design and Analysis of Centrifugal Compressor	NUiCONE 2017	-	2017	-
135.	Dr. N D Ghetiya	Automation and Standardization of Processes used in Packing and Logistics	NUiCONE 2017	-	2017	-
136.	Dr. J M Dave, Dr. M M Chauhan	Failure strength of finite laminated plate with cutouts	International Conference on Composite Materials and Structures, Indian Institute of Technology Hyderabad	-	2017	-

137.	Dr J M Dave	Effects of cut-out orientation and fiber angle on a stress Concentration in an infinite orthotropic plate	International Conference on Composite Materials and Structures, Indian Institute of Technology Hyderabad	-	2017	-
138.	Prof. V M Bhojwala, Prof D V Patel, Dr. K M Patel	Identification of faulty condition of rolling element bearing with inner race defect using time and frequency domain parameters of vibration signature	NUiCONE 2017	-	2017	-
139.	Dr. Mihir M. Chauhan, Dr J M Dave	Bending stress intensity factors at the cusp of Hypocycloidal hole in anisotropic plate	International Conference on Composite Materials and Structures, Indian Institute of Technology Hyderabad	-	2017	-
140.	Prof. D V Patel, Prof V M Bhojwala, Dr . K M Patel	Identification of faulty condition of rolling element bearing with outer race defect using time and frequency domain parameters of vibration signature	NUiCONE 2017	-	2017	-
141.	Prof D B Shah	Design and Analysis of Ball Valve for Cryogen Flow Isolation at -196 °C Temperature	Nuicone-2017	-	2017	-
142.	Prof. Balkrushna Shah	Performance Investigation Of Pulse Tube Refrigerator With Different Regenerative Materials	NUiCONE 17	-	2017	-
143.	Prof. Nipun Raval, Prof. Anand Bhatt, Prof. Tejas Raval	Investigation of cavitation in Centrifugal Pump using ANSYS CFX	International Conference on Recent Advances in Technology	-	2017	-
144.	Dr. Mihir M Chauhan	Design of involute CAM and follower mechanism for frisbee throwing machine	6 <sup>th</sup> Nirma University International Conference on Engineering (NUiCONE), 2017	-	2017	-
145.	Dr. S.V. Jain	Numerical Investigations on High Voltage Circuit Breaker	6 <sup>th</sup> Nirma University International Conference on Engineering (NUiCONE), 2017	-	2017	-

146.	Prof. Arvind M. Sankhla Prof. K.M.Patel Prof. B.A. Modi	Synthesis of Aluminium Based Metal Matrix Composites (MMC) and Experimental Study of their properties	6 <sup>th</sup> Nirma University International Conference on Engineering (NUiCONE), 2017	-	2017	-
147.	Prof. P.J. Bagga Dr. K. M. Patel	Tool Condition Monitoring Using Image Processing Techniques	6 <sup>th</sup> Nirma University International Conference on Engineering (NUiCONE), 2017	-	2017	-
148.	Dr. K M Patel Dr. N D Ghetiya,	Transient thermal analysis during friction stir welding between AA2014-T6 and Pure Copper	International Conference on Design, materials & Manufacture (ICDEM- 2018)	-	2018	-
149.	A. M . Achari	Mathematical modeling and parametric study of water based loop heat pipe ground application	ICAMANE – 2018 28 <sup>th</sup> International Conference on Aerospace Mechanical, Automotive and Material Engineering	-	2018	-
150.	Danak, Deepak; and Shah, Riya	Are Shareholders in Small Companies Exposed to Higher Risk?	NICOM 2018	249-258	January 2018	ISBN 978-93- 87572-22-5
151.	Dr. Pranav Saraswat and Ms. Kadambari Tripathi	Carbon Credit- Scope and Future Perspectives	National Conference on Justice Education at Institute of Law, Nirma University	-	Nov. 10-11, 2017	-
152.	Ms Manisha Chakraborty	Drawbacks of Indian Police System in Forensic Investigation	40 <sup>th</sup> All India Criminology Conference on "Dimensions of Crime and Criminal Justice System: Contemporary Issues and Challenges	-	January 19- 21, 2018	-



153.	Dr Pranav Saraswat	Credit Rating In India: Regulatory Framework & IPO Grading	10 <sup>th</sup> International Conference on Emerging Management Perspective, Practices and Research Trends – Organized by Ganpat University, Kherva, Mehsana	-	17 <sup>th</sup> March 2018	-
154.	Dr. Pranav Saraswat	Case Study Publication titled – ‘Momoman’ at IIM Ahmedabad (Monograph Publication)	FDP, IIM Ahmedabad	-	June – July 2018	-
155.	Dr Shreekant Iyengar	Skilled Birth Attendance in Rural India – A study of four States	Sixth IHEPA Conference organised by Indian Health Economics and Policy Association	-	January 4 & 5, 2018	-
156.	Prof. Bulbul Shukla	Multi culturism in post colonial Indian cities	International Conference on Memory Studies	16-23	September 2017	9786059297829
157.	Prof. Shweta Suhane	Urban Forestry in India: The radical plan to enhance tree cover at national level	2017-IFLA Asia Pacific Regional Congress, Bangkok, Thailand	90-97	November 2017	-
158.	Prof. Pratima Singh	Determining Population Distribution for Vulnerability Assessment	Role of Geospatial Technologies to Bridge the Rural and Urban Divide	20	February 2018	-
159.	Prof. Rahul Shukla	Impact of E commerce on Urban Freight	IUSC-2018, MNIT, Jaipur	10	March 2018	-
160.	Prof. Utpal Sharma	Revitalization of Public Spaces for Better Quality of Life: A Case of Historic City of Jaipur	6 <sup>th</sup> International Conference on Architecture and Civil Engineering (ACE-2018), Singapore	43	May 2018	-
161.	Prof. Utpal Sharma	Issues and Approach for Preparation of Tourism Master Plan for Varkala and its surrounding – 7 panchayat area in Thiruvananthapuram, Kerala	12 <sup>th</sup> World Congress of the Regional Planning Association	34	May 2018	-

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162.	Prof. Utpal Sharma	Evolving Humane Habitat in Rural, Urban and Regional Context	Twentieth International Conference on Humane Habitat	16	January-February 2018	-
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## ANNEXURE VII

Latest Value of Faculty h-Index

Sr. No.	Name of the Faculty	Latest h-Index as per Google Scholar	Latest h-Index as per SCOPUS
1.	Prof. (Dr.) P.N.Tekwani	14	14
2.	Dr S.S.Patel	13	11
3.	Dr Rajesh N Patel	12	11
4.	Dr. Om Prakash	10	6
5.	Dr. Chetna Chauhan	10	3
6.	Dr Kaushik.M.Patel	10	8
7.	Dr. Shibu Pillai	9	8
8.	Prof. S. H. Gajjar	9	6
9.	Dr. J.P. Ruparelia	8	6
10.	Dr. R.K.Mewada	8	7
11.	Dr Sanjay Garg	8	3
12.	Dr. N. M. Devasharyee	8	6
13.	Dr. T. H. Zaveri	8	5
14.	Dr. Mitesh Panchal	8	0
15.	Dr. Dhaval Pujara	7	4
16.	Dr. Usha Mehta	7	5
17.	Dr. K.Bhattacharjee	7	0
18.	Prof. Dipak Adhyaru	7	6
19.	Prof Neha Patni	6	2
20.	Dr. Paresh V. Patel	6	4
21.	Dr. Urmil V. Dave	6	4
22.	Dr. Sudeep Tanwar	6	6
23.	Dr. Gulsahn Sharma	6	3
24.	Prof. Himanshu Patel	6	3
25.	Dr. Ankit Thakkar	6	3
26.	Dr. M.H.Joshipura	5	4
27.	Dr. Ankur Dwivedi	5	3
28.	Dr Zunnun Narmawala	5	4
29.	Dr. Y. N. Trivedi	5	3
30.	Prof. (Dr.) S. C. Vora	5	3
31.	Dr. A.A.Nimje	5	0
32.	Dr. Madhuri Bhavsar	5	2
33.	Dr Vikas J Lakhera	5	3
34.	Dr. Absar .M.Lakdawala,	5	4
35.	Dr. Femina Patel	4	2
36.	Dr. Sharad P. Purohit	4	3
37.	Prof. Digesh D. Joshi	4	2
38.	Dr. Sharda Valiveti	4	2
39.	Prof. Vijay Ukani	4	2
40.	Prof. V. G. Savani	4	2
41.	Prof. D. G. Shah	4	2
42.	Dr. S. K. Chauhan	4	2
43.	Dr. Manisha T. Shah	4	2
44.	Prof. Jignesh Patel	4	4
45.	Dr. (Ms.) Reena.R.Trivedi,	4	4
46.	Prof. Dhaval B. Shah,	4	0
47.	Dr. Parin Shah	3	0
48.	Dr. Priyanka Sharma	3	2
49.	Dr. Priyank Thakkar	3	3
50.	Dr. D. K. Kothari	3	2
51.	Dr. N. P. Gajjar	3	0

52.	Dr. A. P. Naik	3	3
53.	Prof. V. H. Dhare	3	1
54.	Prof. A. I. Mecwan	3	1
55.	Prof. Ruchi Gajjar	3	0
56.	Dr. Ankur Pandya	3	0
57.	Prof. A.N.Patel	3	1
58.	Prof. Ankit Sharma	3	2
59.	Prof. Harsh Kapadia	3	2
60.	Dr. Jai Prakash Verma	3	1
61.	Dr. Motilal Panigrahi	3	1
62.	Prof. Mahesh Yeolekar	3	0
63.	Dr.. Nilesh .D.Ghetiya	3	3
64.	Dr. Jatin M.Dave,	3	2
65.	Dr. Mihir M. Chauhan	3	2
66.	Prof. Saumil Desai,	3	0
67.	Dr. Nimish Shah	2	2
68.	Dr. Parul R. Patel	2	0
69.	Prof. Sonal Thakkar	2	2
70.	Prof. Tejas Joshi	2	0
71.	Prof. K P Agrawal	2	2
72.	Prof. Swati Jain	2	1
73.	Prof Rupal A Kapdi	2	0
74.	Prof. Pooja P Shah	2	0
75.	Prof. Vishal U. Parikh	2	1
76.	Prof Jigna A Patel	2	1
77.	Prof Tarjni Vyas	2	0
78.	Prof. Shivani Desai	2	0
79.	Prof. Anitha Modi	2	0
80.	Dr Saurin Parikh	2	2
81.	Prof. Sonia Mittal	2	0
82.	Prof. Smita Agrawal	2	0
83.	Prof. Priti Kathiria	2	0
84.	Prof. M. A. Upadhyay	2	2
85.	Prof. P. M. Bhatasana	2	0
86.	Prof. M. R. Naik	2	2
87.	Prof. Bhavin Kakani	2	1
88.	Prof. T.H.Panchal	2	1
89.	Prof.S S Kanojia	2	0
90.	Prof. Chintan Mehta	2	0
91.	Prof. C.B.Bhatt	2	1
92.	Prof. P. N.Kapil	2	0
93.	Prof. Sandip Mehta	2	2
94.	Prof. Vishal Vaidya	2	0
95.	Prof. Vidita Tilva	2	1
96.	Prof. Alpesh Patel	2	1
97.	Prof. Malaram Kumhar	2	0
98.	Prof. Dvijesh Bhatt	2	0
99.	Prof. Daiwat Vyas	2	0
100.	Prof. Pronaya Bhattacharya	2	0
101.	Prof Kunal Pathak	2	1
102.	Dr. Richa Mishra	2	2
103.	Dr. Samir K Mahajan	2	0
104.	Dr. Sandeep Malhotra	2	0
105.	Dr. Priyanka Sharma	2	0
106.	Dr. Dhiren Pandit	2	0
107.	Dr. Bijal Yeolekar	2	0
108.	Dr. Bharat A.Modi,	2	0
109.	Dr. Niraj K. Shah,	2	1

110.	Prof. Vipul .M.Bhojawala,	2	0
111.	Prof. Ashish M. Gohil	2	2
112.	Prof. Balkrushna A Shah,	2	0
113.	Prof. Mayur A Makhesana,	2	1
114.	Prof. Darshit S Upadhyay	2	0
115.	Prof. Nikita Choksi	1	0
116.	Prof. Leena Bora	1	1
117.	Prof R.N.Reddy	1	0
118.	Prof Amita Chaudhary	1	0
119.	Dr. Hasan M. Rangwala	1	1
120.	Prof. Sunil Raiyani	1	1
121.	Prof. Rihan Maaze	1	0
122.	Prof. Hemang Dalwadi	1	0
123.	Prof Monika Shah	1	1
124.	Prof Anitha Ashishdeep	1	0
125.	Prof Kruti Lavingia	1	0
126.	Prof Pimal Khanpara	1	0
127.	Prof. Dhaval S Jha	1	0
128.	Prof Vivek K Prasad	1	0
129.	Prof. Anuja Nair	1	0
130.	Prof. Chirag Nathwani	1	0
131.	Prof Rasendu Mishra	1	1
132.	Prof.Rajan Datt	1	0
133.	Prof. Rushabh Shah	1	1
134.	Prof. Ami Shukla	1	0
135.	Prof. B. D. Fataniya	1	1
136.	Prof. S. N.jani	1	1
137.	Prof. Sukanta K. Sahoo	1	0
138.	Prof. Nital Patel	1	0
139.	Prof. Tejal Upadhyay	1	0
140.	Prof. Parita Oza	1	0
141.	Prof. Sapan Mankad	1	1
142.	Prof. Payal Prajapati	1	0
143.	Dr. Paramasivan Sivasooriyan Vellala	1	1
144.	Dr. Bimalkumar Mawandiya,	1	0
145.	Prof. ( Ms.) Shruti N. Mehta	1	0
146.	Prof. Tejas N Raval,	1	0
147.	Prof. Amit Dubey	0	1
148.	Prof. Jitali Patel	0	0
149.	Prof. Vipul Chudasama	0	0
150.	Prof. Ajaykumar M Patel	0	0
151.	Prof. Kavita Tewani	0	0
152.	Prof. Rajesh Pradhan	0	0
153.	Prof. Deepika Shukla	0	0
154.	Prof. Devendra Vashi	0	0
155.	Prof. Lata Gohil	0	0
156.	Prof. R. K. Sharma	0	0
157.	Prof. D. J. Panchal	0	0
158.	Prof. Hardik Joshi	0	0
159.	Prof. Twinkle Bhavsar	0	0
160.	Prof. J. J. Patel	0	0
161.	Prof. Tanuj Gupta	0	0
162.	Prof. Rutul Patel	0	0
163.	Prof. U. A. Patel	0	0
164.	Prof. S. D. Godwal	0	0
165.	Prof. D. M.Mehta	0	0
166.	Prof. H. Z. Amroliya	0	0
167.	Prof. Samyak S. Shah	0	0

168.	Prof. Akhilesh Panwar	0	0
169.	Prof. Chirag Raval	0	0
170.	Prof. J. N. Pathan	0	0
171.	Prof. C. D. Patel	0	0
172.	Prof. A. N.Gupta	0	0
173.	Prof. Tarun K.Tailor	0	0
174.	Prof. V.V. Kari Satyanarayan	0	0
175.	Dr. Gaurang Raval	0	2
176.	Prof. Usha Patel	0	0
177.	Prof. Chandan Trivedi	0	0
178.	Prof. Preksha Pareekh	0	0
179.	Prof. Umesh Bodkhe	0	0
180.	Prof. Akhikesh Ladha	0	0
181.	Prof K. Ambika	0	0
182.	Dr. Amit Mishra	0	0
183.	Prof. Foram Chandarana	0	0
184.	Dr. Ratna Rao	0	0
185.	Prof. Pronoy Singha	0	0
186.	Dr. Shantanu Shandilya	0	0
187.	Prof. Raj Mehta	0	0
188.	Dr. Shashikant J.Joshi	0	0
189.	Dr. Sanjay.V.Jain,	0	5
190.	Dr. A. Madhusudan Achari	0	0
191.	Prof. (Ms.) Darshita J. Shah	0	0
192.	Prof. Dhaval V Patel,	0	0
193.	Prof. Ath S Singhal,	0	0
194.	Prof. Anand A. Bhatt,	0	0
195.	Prof. Nipun P Raval	0	0
196.	Prof. Hiren M Prajapati	0	0
197.	Prof. Rudreshkumar D Makwana	0	0
198.	Prof. Prashant Bagga	0	0
199.	Prof. Shebaz Memon	0	0
200.	Prof. Anand Patel	0	0
201.	Prof. Arvind Sankhla	0	0
202.	Prof. Vishal Mehta	0	0
203.	Prof. Roshan Tandel	0	0
204.	Prof. Ritesh Patel	5	1
205.	Prof. Dhiren Jotwani	1	-
206.	Prof. Indu Rao	2	-
207.	Prof. Mahesh K C	3	2
208.	Prof. Rajesh Kumar Jain	4	-
209.	Prof. Nisarg Joshi	7	-
210.	Prof. Samik Shome	3	-
211.	Prof. Sapna Parashar	3	-
212.	Prof. Sunita Guru	2	-
213.	Prof. Triurasundari Joshi	1	-
214.	Prof. Nikunj Patel	5	1
215.	Prof. Punit Saurabh	3	-
216.	Prof. Sanjay Jain	-	-
217.	Prof. Subrat Sahu	6	-
218.	Prof. Chetan Jhaveri	5	-
219.	Prof. Deepak Danak	1	-
220.	Prof. Sandeep Trada	1	1
221.	Prof. Jayesh Aagja	5	-
222.	Prof. Hardik Shah	5	-
223.	Prof. Manjunath Ghate	16	15
224.	Prof. Tejal A. Mehta	15	12
225.	Prof. Priti J. Mehta	9	7

226.	Prof. Jigna Shah	8	8
227.	Dr. Hardik G. Bhatt	10	9
228.	Dr. Mayur M. Patel	14	11
229.	Dr. Shital B. Butani	8	6
230.	Dr. Jignasa K. Savjani	7	4
231.	Dr. Shital S. Panchal	11	7
232.	Dr. Niyati S. Acharya	9	7
233.	Dr. Charmy Kothari	7	6
234.	Dr. Snehal S. Patel	12	8
235.	Dr. Bhoomika M. Patel	17	12
236.	Dr. Jigar N. Shah	5	3
237.	Dr. Vivek K. Vyas	11	10
238.	Dr. Renuka D. Mishra	6	4
239.	Dr. Shraddha Bhadada	9	7
240.	Dr. Dhaivat C. Parikh	4	3
241.	Dr. Nagja V. Tripathi	2	1
242.	Dr. Dipal M. Gandhi	3	2
243.	Dr. Nrupesh R. Patel	2	2
244.	Dr. Bhumika D. Patel	6	5
245.	Ms. Palak K. Parikh	4	3
246.	Dr. Mohit Shah	2	1
247.	Prof. Sarat K Dalai	13	12
248.	Prof. Shalini Rajkumar	13	11
249.	Dr. Sonal Bakshi	10	09
250.	Dr. Sriram Seshadri	19	13
251.	Dr. Vijay Kothari	12	05
252.	Dr. Nasreen Munshi	02	02
253.	Dr. Ameer Nair	07	06
254.	Dr. Rajeev Tyagi	17	14
255.	Prof. Pratima Singh	2	2

## ANNEXURE VIII

**Books Published by Faculty Members (July 01, 2017 to June 30, 2018)****Books with ISBN Number:**

Sr. No.	Name of the Faculty Member	Name of the Book	Name of the Publisher	ISBN Number	Year of Publication
1.	Sudeep Tanwar, S K Singh & Sudhanshu Tyagi	Mobile Computing	Bhavya Publication, Delhi	978-93-83992-25-6	2017
2.	Sudeep Tanwar, S K Singh & Sudhanshu Tyagi	Big Data Analytics	Bhavya Publication, Delhi	978-93-83992-25-8	2017
3.	Dr Richa Mishra	Introduction to Critical Thinking	Macmillan Education	978-93-87914-25-4	2018
4.	Rao Indu	Cultural Governance in Indian Diamond Industry	Image Publications	978-81-7997-735-4	2017
5.	Rao Indu	Bhartiya Heera Udyog. Ek Zalhaltu Paasu (In Gujarati)	Image Publications	978-81-7997-739-2	2017
6.	Rao Indu	Fundamentals of Human Resource Management	Mcgraw Hill	978-93-5260-720-4	2017
7.	Ashwini Awasthi, Shahir Bhatt	Research Trends in Marketing Management and Human Resource Management	Excel India Publishers	9789386256768	2017
8.	Ashwini Awasthi, Nikunj Patel	Research Trends in Economics, Finance, And General Management	Excel India Publishers	9789386256751	2017
9.	Jain Rajesh, Himanshu Trivedi	Glocal Challenges: Excellence Through Quality & Innovation	ASQ South Asia	978-81-930216-3-7	2018
10.	Balakrishnan Unny, Bhatt Nityesh, Shahir Bhatt	Transformation Through Strategic and Technological Interventions	Mcgraw Hill Education (India) Pvt. Ltd.	978-93-87572-21-8	2018
11.	Bhatt Nityesh, Balakrishnan Unny, Shahir Bhatt	Business Transformation Through Functional Strategies	Mcgraw Hill Education (India) Pvt. Ltd.	978-93-87572-22-5	2018
12.	Bhatt Nityesh, Ritesh Patel	Research Frontiers in Human Resource Management and Marketing Management	Excel Publishers, New Delhi	978-93-86724-69-4	2018
13.	Bhatt Nityesh, Ritesh Patel	Research Frontiers in Finance and General Management	Excel Publishers, New Delhi	978-93-86724-70-0	2018
14.	Dr. Bhoomika M. Patel	Elements of Pharmacology	B. S. Shah Prakashan	81-8416-031-3	2017-18
15.	Dr. Bhoomika M. Patel	C. S. Shah's Pharmacognosy	B. S. Shah Prakashan	81-8416-052-6	2017-18
16.	Dr. Tejal A. Mehta	Pharmaceutical Quality Management & Drug Delivery Systems	Career Publication, New Delhi	978-93-82322-71-9	2017-18
17.	Dr. Mayur M. Patel	A TEXT-BOOK OF HOSPITAL PHARMACY	B. S. SHAH PRAKASHAN	81-8416-008-9	2017-18



18.	Sriram Seshadri	Lactobacillus and Urinary Tract Infection.	Mc-Grew Hill Open Publishing, USA	978-1-3870-5218-9	2017
19.	Kashyap amit kumar	Corporate law in india: reflective aspects and developing scenario	Regency publication, New Delhi	978-9352220175	2017
20.	Prof.Sharad Panchal	Crafting the Composition: Part I	R.R.Sheth & Co. Ltd.	978-81-89598-92-1	2017
21.	Prof. Jitesh Mewada	Crest of a Building	Charotar Publishing House Pvt.Ltd.	978-93-85039-331	2018
22.	Prof. Vibha Gajjar	Crest of a building	Charotar Publishing House Pvt.Ltd.	978-93-85039-331	2018

**Books without ISBN Number:**

Sr. No.	Name of the Faculty Member	Name of the Book	Name of the Publisher	Year of Publication
1.	Dr.Ratna Rao	Flip over the English Classroom	Neelkamal	2018
2.	Dr. Snehal Patel	Human Anatomy and Physiology	Nirav Prakashan	2018

**Books Chapter:**

Sr. No.	Name of the Faculty Member	Name of the Book	Name of the Chapter	Name of the Publisher	ISBN Number	Year of Publication
1.	Neha Patni, Neha Jain, Shibu G. Pillai	Trends and Applications in Advanced Polymeric terials	Polyaniline based sensors for monitoring and detection of ammonia and carbon monoxide gases	Scrivener Publishing (Wiley)	9781119363637	10/2017
2.	Neha Patni, Pranjali Sharma, Mythilpriya Suresh, Birendrakumar Tiwari, Shibu G. Pillai	Trends and Applications in Advanced Polymeric Materials	Polymer based organic solar cell: an overview	Scrivener Publishing (Wiley)	9781119363637	10/2017
3.	Nishanth Patel, Ronak Kamdar, Paresh Padheriya, Nirav Panchani, Digesh D. Joshi and Paresh V. Patel	Managing Construction and Related Sectors - Challenges, Opportunities, Status and Trends (COST) in India, Volume-I - Issues in Construction Materials, Methods and Processes	Experimental Study on Behaviour of Wet Precast Beam to Beam Connections	National Institute of Construction Management and Research (NICMAR)	978-93-5268-179-2	2017

4.	Harsh Naik, Krishna Patel, Pareejat Shah, Rahul Pasawala, Tazeen Pathan, Hemang Dalwadi	Managing Construction and Related Sectors - Challenges, Opportunities, Status and Trends (COST) in India, Volume-I - Issues in Construction Materials, Methods and Processes	Identification and Prioritization of Accident Black Spots on NH147 using GIS	National Institute of Construction Management and Research (NICMAR)	978-93-5268-179-2	2017
5.	Harshit K. Kothari, Paresh V. Patel and Digesh D. Joshi	Advances in Concrete, Structural & Geotechnical Engineering	Behavior of Precast Portal Frame Subjected to Lateral Loading: An Experimental Study (pages 246-251)	Bloomsbury India	978-93-87471-69-6	2018
6.	Paresh V. Patel and Sunil D. Raiyani	Advances in Concrete, Structural & Geotechnical Engineering	Shear Strengthening of RC Beam using Stainless Steel Wire Mesh (pages 452-457)	Bloomsbury India	978-93-87471-69-6	2018
7.	V. K. Singh and Paresh V. Patel	Advances in Concrete, Structural & Geotechnical Engineering	Strengthening of Axially Loaded Circular Concrete Column using Stainless Steel Wire Mesh (SSWM) - Experimental Investigation, Analytical Approach and Installation Guidelines (pages 843-848)	Bloomsbury India	978-93-87471-69-6	2018
8.	Mayur Patel, Kush Patel, Akshay Patel, Ronak Prajapati, Vipul Vaniya and Utsav Koshti	Advances in Concrete, Structural & Geotechnical Engineering	Study of Sawdust Concrete Blocks Properties as Construction Materials (pages 403-405)	Bloomsbury India	978-93-87471-69-6	2018
9.	Priyank Thakkar & Vijay Ukani	Smart Innovation, Systems and Technologies	Outcome fusion-based Approaches for User-based and Item-based Collaborative Filtering	Springer	978-3-319-63673-3	2017
10.	Jayati Dave, Yusra Shaikh, Tarjni Vyas, and Anuja Nair	Smart Innovation, Systems and Technologies	MobiCloud: Performance Improvement, Application Models and Security Issues	Springer	978-3-319-63673-3	2017

11.	Tanwar S, Tyagi S & Kumar S,	Intelligent Communication and Computational Technologies	The Role of Internet of Things and Smart Grid for the Development of a Smart City	Springer	978-981-10-5523-2	2017
12.	Tanwar S, Ramani T & Tyagi S,	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering,	Dimensionality Reduction using PCA and SVD in Big Data: A Comparative Case Study	Springer	978-3-319-73711-9	2017
13.	Vijay Ukani, Priyank Thakkar & Vishal Parikh	Smart Innovation, Systems and Technologies	Routing Protocols for Wireless Multimedia Sensor Networks: Challenges and Research Issues	Springer	978-3-319-63673-3	2017
14.	Nirali Naik, Sapan H Mankad, Priyank Thakkar	Smart Innovation, Systems and Technologies	Investigating the Effect of Varying Window Sizes in Speaker Diarization for Meetings Domain	Springer	978-3-319-63673-3	2017
15.	Swati Jain, Priyanka Sharma, Vipin Makde, Jenise Bhavsar	Smart Systems and Technologies (SIST)	Deep Neural Network based classification of tumorous and non-tumorous Medical Images	Springer	ISSN: 2190-3018	2017
16.	Bhakti Sonawane, Dr. Priyanka Sharma	Intelligent computing and information and communication, Springer	Acceleration of CNN-Based Facial Emotion Detection Using NVIDIA GPU	Springer	978-981-10-7244-4	2018
17.	Rupal Kapdi, Dr. Mehul Raval	Soft computing based medical image analysis	Deep Learning for Automated brain tumor segmentation in MRI images	Elsevier	978-0-12-813087-2	2018
18.	Dharti Patel, Zunnun Narmawala, Sudeep Tanwar, Pradeep Kumar Singh	Smart Innovations in Communication and Computational Sciences	A Systematic Review on Scheduling Public Transport Using IoT as Tool	Springer	978-981-10-8971-8	2018
19.	Vaibhavi Patel, Rupal Kapdi	Ambient Communications and Computer Systems. Advances in Intelligent Systems and Computing	Brain Tumor Segmentation Using K-means-FCM Hybrid Technique	Springer	Online : 978-981-10-7386-1 Print: 978-981-10-7385-4	2018
20.	Dr. Chetna Chauhan	Magnetic Oxides and Composites	Structural, Magnetic and Dielectric Properties of Aluminum Cobalt Substituted M-Type Strontium Hexaferrites	Materials Research Forum LLC	2471-8890	2018

21.	Sharma, Ankit K., Dipak M. Adhyaru, and Tanish H. Zaveri.	Smart Innovation, System and technologies,	A Novel Cross Correlation-Based Approach for Handwritten Gujarati Character Recognition.	Springer	2190-3018 (ISSN number)	2018
22.	Alpesh Patel, Rohit Singh, Jignesh Patel, Harsh Kapadia	Smart Innovation, Systems and Technologies book series (SIST, volume 84)	Industrial Internet of Thing Based Smart Process Control Laboratory: A Case Study on Level Control System	Springer	2190-3018 (ISSN number)	2017
23.	Prof. Vipul Chudasama, Jinesh Shah, Dr. Madhuri Bhavsar	Smart, Innovation, System and Technologies	Weight based Workflow Scheduling in Cloud Federation	Springer International Publication	978-3-319- 63645-0	2017
24.	Prof. Vipul Chudasama, Dhaval Tilala, Dr.Madhuri Bhavsar	Smart, Innovation, System and Technologies	SLA Management in Cloud Federation	Springer International Publication	978-3-319- 63645-0	2017
25.	Dr. Gaurang Raval & Dr. Vijay Ukani & Dr. Sharada Valiveti	Smart, Innovation, System and Technologies	Open Issues in Named Data Networking - A Survey	Springer International Publication	978-3-319- 63645-0	2017
26.	Khushali Tripathi, Dr. Gaurang Raval, Dr. Sharada Valiveti	Smart, Innovation, System and Technologies	Natural Language Interface for Multilingual Database	Springer International Publication	978-3-319- 63645-0	2017
27.	Dr. Sandeep Malhotra	Introduction of Computational and Applied Mathematics	Compressed Sensing and Applications by using Dictionaries in Image Processing	Research India Publication	978-93-87374- 35-5	2018
28.	Dr. Ratna Rao	New Voices in World Literature	Unveiling Persepolis as a Graphic Novel	Vishwabharti Research Centre	978-93-86242- 88-4	2017
29.	Prof. Foram Chandarana	New Voices In World Literatures On English	The City And The City And The City: A Case For The New Weird Novel	Vishwabharati Research Centre	978-93-86242- 88-4	2017
30.	Dr. Ratna Rao	English Language Teaching: Issues and Innovations	Eclectic Method of Teaching In English Classroom	Aadi Publishers	978-93779900-4	2018
31.	Dr. Sandeep Malhotra	Introduction of Computational and Applied Mathematics	Solution of Stiff Differential Equations & Dynamical Systems Using Neural Network Methods	Research India Publication	978-93-87374- 35-5	2018

32.	Darshit Shaileshkumar Upadhyay, Haresh V Makwana, Jayesh J Barve, Rajesh N Patel	Second International Conference On Recent Advances In Bioenergy Research	Chapter 9 : Strategies For Producer Gas Cleaning In Biomass Gasification: A Review	Springer Singapore	978-981-10-6107-3	2017
33.	Jotwani Dhiren	Enhancing Economic Productivity and Competitiveness Though Financial and Monetary Reforms	Economic Development and Fraudulent Financial Schemes	Gujarat Technological University	978-93-5281-176-2	2017
34.	Bhatt Nityesh	Glocal Challenges: Excellence Through Quality & Innovation	Prasadalya Management at Shri Sai Baba Temple, Shirdi: A Case of Operational Excellence	American Society For Quality India Pvt. Ltd.	978-81-930216-3-7	2017
35.	Rao Indu	Towards Sustainable Development: A Compilation	Cultural Governance for Sustainable Development	Himalaya Publishing House	978-93-5262-686-1	2017
36.	Dave Niyati	Business Ecosystem: Interplay of Key Dimensions	Can Business Angel Contribute Towards Sustainability of Startups a Review	Himalya Publishing House Pvt. Ltd	978-93-5273-835-9	2017
37.	Muncherji, Nina	Business Transformation Through Functional Strategies	Exploring the Relationship between Individual and Organizational Learning: Role of Team Learning	McDraw Hill Education (India) Private Limited	978-93-87572-22-5	2018
38.	Jain, Rajesh K. & Nenwani, Jitendra	<i>GLocal</i> Challenges: Excellence through Quality and Innovation	Lean Startup: Concept, Global Challenges and Issues,	ASQ South Asia	978-81-930216-3-7)	2018
39.	Jain, Rajesh K & Sharma, Aayush	<i>GLocal</i> Challenges: Excellence through Quality and Innovation	Six Sigma Project to Reduce Defects in Capsules: Challenges and Benefits in a Mature Organization	ASQ South Asia	978-81-930216-3-7)	2018
40.	Shah Tejas	Empowering to create smart future through E-Governance and Digitization	Conceptualizing the Framework for Service Value Co-Creation through Crowdsourcing	Bharti Publications	978- 93- 86608 - 32-1	2018
41.	. Jain, Rajesh K ; Trivedi, Himanshu	<i>GLocal</i> Challenges: Excellence through Quality and Innovation	<i>GLocal</i> Challenges: Excellence through Quality and Innovation	ASQ South Asia	978-81-930216-3-7	2018
42.	Parashar, Sapna & Sood, Gunjan	Business Transformation through Functional Strategies.	An analysis of Factors affecting Mobile Bankig Services	McGraw Hill Education (India) Pvt. Ltd	9789387572225.	2018

43.	Nirmal Chandrakant Soni	THRIVE A Handbook of Family Business Case Studies	A Family Enterprise looking for Grey pastures in Green Business of Solid Waste Management	Bloomsbury India	978-93-87146-16-7	2018
44.	Nirmal Chandrakant Soni	Research Frontiers in Finance and General Management	Review of Literature: Gujarat's strategy of Economic Growth with Employment	Excel India Publishers	978-93-86724-70-0	2018
45.	Aney Rawat & Tripurasundari Joshi	Business transformation through functional strategies	A demographic analysis of investors' awareness and usage of credit ratings	McGraw Hill Education (India) Pvt. Ltd	9789387572225.	2018
46.	Dhiren Jotwani	Governance In Indian Financial Services Sector: Reforms And Remedies	Governance, Financial Development And Economic Growth	L Ordine Nuovo Publications	978-93-86782-40-3	2018
47.	Varadiya, Brijeshkumar, Savaliya, Urveshkumar, Dwibedi, Satya Swarup & Mahesh KC	Transformation Through Strategic and Technological Interventions	A Statistical Model for Predicting Bitcoin Market Price	Mcgraw Hill Education (India) Pvt. Ltd.	978-93-87572-21-8	2018
48.	Rao, Indu & Jha, Poonam	Research Frontiers in Finance and General Management	A Green HRM Approach to Organizational Sustainability	Excel India Publications	978-938-672-4694	2018
49.	Dr. Mayur Patel	Lipid Nanocarriers for Drug Targeting	Lipid nanoparticulate systems: Modern versatile drug carriers	Elsevier B.V.	978-0-12-813687-4	2018
50.	Dr. Tejal Mehta	Parenteral Drug Delivery Systems	In-Vitro and In-Vivo Tools in Drug Delivery Research for Optimum Clinical Outcomes	CRC press	978-1-13-8555600	2018
51.	Dr. Niyati Acharya	Inorganic Frameworks As Smart Nanomedicines	Coreshell Nanoparticles As A Drug Delivery Platform For Tumor Targeting	Elsevier. V.	978-0-12-813661-4	2018
52.	Dr. Niyati Acharya	Vol.47 Hyperlipidemia Of The Series "Recent Progress In Medicinal Plants	Evaluation Of Anti-Obesity Potential Of Heartwood Of Pterocarpus Marsupium Using Panceatic Lipase Inhibitory Activity And High Fat Diet Model In Rats	Stadium Press	9781630000000	2018

53.	Sarat K. Dalai	Inflammatory Bowel Disease	Pulling back to the nature: a condition to fight IBD	Open Access Ebooks	978-93-87500-06-8	2017
54.	Shalini Rajkumar	Understanding Host-Microbiome Interactions - An Omics Approach	A Metagenomic Approach to Identify Distinct Rhizospheric and Endophytic Bacterial Communities from Roots and Root Nodules of <i>Vigna radiata</i>	Springer – Singapore	978-981-10-5050-3	2017
55.	Sriram Seshadri	Alcoholism: Causes, Symptoms Effects and Treatment	Understanding the role of probiotics as a possible treatment strategy for alcoholism induced liver dysfunction	Manakin Press Pvt Ltd.	9789386677488	2017
56.	Vijay Kothari and Sriram Seshadri	Design of nanostructures for versatile therapeutic applications	Nanotechnological approaches to colon-specific drug delivery for modulating the quorum sensing of gut-associated pathogens	Elsevier Publishers, USA	9780128136683	2018
57.	Vijay Kothari	Design of Nanostructures for Versatile Therapeutic Applications	Modulation of microbial quorum sensing: Nanotechnological approaches	Elsevier Publishers, USA	9780128136683	2018
58.	Rajeev Tyagi	Liposomes	Liposome-Mediated Immuno suppression Plays an Instrumental Role in the Development of “Humanized Mouse” to Study <i>Plasmodium falciparum</i>	Intech Open	978-953-51-3580-7	2017
59.	Arun B Prasad	Cyber crimes in 21st Century	Cyber crime in India: time series study of cyber crimes at state level	Manakin press, new delhi	978-93-843705-3-4	2017

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**ANNEXURE IX**
**Best Practices**
**Practice No. 1**

**Title of the Practice:** QR code implementation for instruments

**Objectives of the Practice:**

- To better understand operating aspects of the instruments
- To minimize human interface and dependence for understanding standard processes to be followed
- To facilitate rapid and actual operational understanding

**The Context:**

- Virtual learning for operational aspects
- Crucial points to be taken into consideration while handling instrument

**The Challenges:**

- Identifying suitable display form which can be coded
- To develop repository of videos and SOPs

**The Practice:**

- QR code to be applied on instrument, at the entry of laboratory or library or garden
- Providing access to any piece of information from a transitory media through the cell

**Uniqueness in the context of Indian Higher Education:** It is easy to use and can transform large set of information through 2D response. It promotes rapid learning even in the absence of the operator or instructor. It helps to get comprehensive idea about actual performance of the instruments instead of merely reading instructions in SOP books.

**Constraints / Limitations:**

- Dependability on a mobile device or smartphone
- Lack of awareness and familiarity to use QR code amongst users

**Evidence of Success:**

Better understanding imparted through real time videos on operations of instruments or information of the place compared to only reading manual. It is time saving process.

**Problems Encountered and Resources required:**

- Generating an URL requires expertise
- Dependence on computers/devices

**Practice No. 2**

**Title of the Practice:** Developing Global Outlook of Students

In order to manage the student progression and for the academic and administrative environment, it is incumbent on the administration to not only introspect about activities and systems but also generate a policy environment that creates a global outlook in the students. Since last two academic



years, Institute has encouraged faculty to visit foreign Universities and Institutions for research and academic pursuits. Till now, faculty members have visited seats of higher such as Hague, San Marino, Italy, South Korea, Sri Lanka, Penn State University in United States, HOF University in Germany, Dubai, Singapore, Nepal and other countries in South East Asia. These visits resulted in a fruitful exchange of understanding, practices and ethos of higher education across the globe. Institute realized that it is high time to build a global outlook and consciousness amongst students for their academic and professional pursuits.

**Objectives of the Practice:**

- Help students develop a wider understanding of law, practice and professional life
- As an learning institution, a need was felt to benchmark global practices and evolve as an organization
- Explore possibilities of student exchange, faculty exchange and foreign collaborations

**The Context:** The internationalization of laws and coming together of new forums of dispute resolution such as arbitration and mediation required a shift in the approach to curriculum development, pedagogy and content management. Students cannot be restricted to exposure of Indian laws alone as this would impact their future prospects in a broad manner. Learning international laws from faculty from respective systems seemed to be the best bet to enhance student exposure. It was decided that Legal Systems such as American, European and Chinese Legal Systems as courses should be taught by faculty members from the respective legal systems. Further, experts in various fields of law were invited to deliver distinguished lecture. Through tele-conferencing too, a few experts were involved in teaching certain topics from the course. Overall, the global perspective was required to be developed amongst the students by academic initiatives.

**The Challenges:**

Though the practice has lot of merits, there were certain challenges:

- Difficulty in accessing experts in certain domain areas.
- Student reservations in changing their traditional approach of learning
- Matching student needs with foreign professional's expertise
- Scheduling a planning the coordination of course delivery

**The Practice:** A need was felt to approach this issue in a step-by-step manner. The first step was to allow faculty members to identify foreign Universities and Institutions. Next, communication needs to be established between different institutions. With links with a few academicians and administrators, proposals were sent to selected list of institutions which have made a mark in the arena of law and practice. Before the commencement of semester, appropriate changes in courses were accommodated to ensure that faculty from other Universities are able to conduct courses. Once the faculty / expert is with the Institute, a faculty coordinator is appointed to closely monitor the whole process. Dean and a faculty team worked to ensure that the best possible outcome is achieved through this practice.

**Uniqueness in the context of Indian Higher Education:** In law schools, unlike other professional courses, the global outlook is greatly missing. Emphasis is generally on honing Indian legal environment and academic requirements. Students will get an added advantage with a global outlook; with relevant skills.

**Constraints / Limitations:**

- Time / scheduling limitations
- Student's ability to adjust to new pedagogy / method

- Extra efforts required to appear in courses from other / foreign legal systems
- Administrative constraints

**Evidence of Success:**

- Due to the sustained efforts of the Institute, a steady stream of students is opting for higher education in foreign Universities.
- There is increased selection of course options with international prospects
- Alumni have emphasized the continuance of this practice as it gives advantage at the time of recruitment and enhances job prospects.
- Student feedback is good. Students enjoy the process and have started thinking in global perspective.

**Problems Encountered and Resources required:**

- In the initial phase, there is lack of focus and required attention to courses related to foreign legal systems due to traditional mindset of students. Faculty team had to really work hard in convincing about the relevance of the course.
- Administrative and scheduling problems

**Resources Required:**

- Administrative support is required
- A well-coordinated team effort is required
- Relevant funding
- Development of required course curriculum