



Annual Quality Assurance Report (2015-16)

**Submitted
By**

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

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

October 2016

Annual Quality Assurance Report

(Assessment Period: April 01, 2015 to June 30, 2016)

Part – A

1.	Details of the Institution:						
	1.1	Name of the Institution:	Nirma University				
	1.2	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. Dhaval Pujara				
		Mobile:	09925965718				
	IQAC E-mail Address:	dy.director.adr@nirmauni.ac.in					
	1.3	NAAC Track ID:	GJUNGN10152				
	1.4	NAAC Executive Committee No. & Date:	10 th Meeting of the Standing Committee held on 15-11-2015				
	1.5	Website Address:	www.nirmauni.ac.in				
		Web-link of the AQAR:	http://www.nirmauni.ac.in/NU/AQAR				
	1.6	Accreditation Details:					
			Sr. No.	Cycle	Grade	CGPA	Year of Accreditation
		1	1 st Cycle	B	2.93	2010	Five Years
	2	2 nd Cycle	A	3.18	2015	Five Years	
1.7	Date of Establishment of IQAC :	24/09/2009					
1.8	AQAR for the year	2015-16					
1.9	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	11-10-2016
1.10	Institutional Status:		
	University:		State
	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	
1.11	Type of Faculty/Programme:		
	Arts		-
	Science		√
	Commerce		-
	Law		√
	PEI (Phys Edu)		-
	TEI (Edu)		-
	Engineering		√
	Health Science		√ (Pharmacy)
	Management		√
Others (Specify)		√ (Architecture)	
1.12	Name of the Affiliating University (for the Colleges)	Not Applicable	
1.13	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:	The University has applied for the status of Potential for Excellence vide letter no. NU/ADR/ER/UGC/CPEPA, dated September 27, 2014.	
	DST Star Scheme	Being a statutory private University, at present it is not covered under Section 12 (B) of the UGC Act. Thus, although there is potentiality, the University is not eligible for such assistance.	
	UGC-Special Assistance Programme:		
UGC-Innovative PG programmes			
UGC-COP Programmes:			

			Note: The University has applied for 12 (B) status of the UGC based on its credentials and the progress made in a short span.
		Any other (<i>Specify</i>):	Recognition of 'Scientific and Industrial Research Organisation (SIRO)' by Department of Scientific and Industrial Research, Govt. of India.
2.	IQAC Composition and Activities:		
2.1	No. of Teachers:		08
2.2	No. of Administrative / Technical Staff:		04
2.3	No. of Students:		01
2.4	No. of Management Representatives:		02
2.5	No. of Alumni:		01
2.6	No. of any other Stakeholder and Community Representatives:		--
2.7	No. of Employers / Industrialists:		02
2.8	No. of other External Experts:		02
2.9	Total No. of Members:		20
2.10	Total No. of IQAC meetings at the Institute during April 1, 2015 to June 30, 2015:		08
	Total No. of IQAC meetings at the Institute during July 1, 2015 to June 30, 2016:		40
2.11	No. of Meetings with Students by Head of Institute (HoI) during April 1, 2015 to June 30, 2015:		01
	No. of Meetings with Students by HoI during July 1, 2015 to June 30, 2016:		23
	[@] No. of Meetings with Alumni by HoI during April 1, 2015 to June 30, 2015:		00
	[@] No. of Meetings with Alumni by HoI July 1, 2015 to June 30, 2016:		15
	^{&} No. of Meetings with Non-Teaching Staff by HoI during April 1, 2015 to June 30, 2015:		04
	^{&} No. of Meetings with Non-Teaching Staff by HoI July 1, 2015 to June 30, 2016:		28
	^{&} No. of Meetings with Faculty by HoI during April 1, 2015 to June 30, 2015:		11
	^{&} No. of Meetings with Faculty by HoI July 1, 2015 to June 30, 2016:		91
	<p>Note:</p> <p>a) [@]Every constituent Institute of the University has an Alumni Association. The Institutes have conducted 15 meetings (approximately) during the period. Apart from this, the University has a Nirma University Alumni Forum of the past students of the University, which holds two (02) meeting during April 01, 2015 to June 30, 2016.</p> <p>b) ^{&}The Institutes' Heads conduct meetings with the Departments Heads and the Departments' Heads conduct regular meeting with the faculty and staff members.</p>		

2.12	<p>Has IQAC received any funding from the UGC during the year?</p> <p>No, Being a statutory private University, we are 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 made in a very short span.</p>								
2.13	<p>Seminars and Conferences (only quality related):</p> <p>No. of Seminars/Conferences/Workshops/Symposia organized by the IQAC:</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"> • Re-accredited (2nd Cycle) by the NAAC during October 2015. • Implemented University Level Academic Audit at the constituent institutes of the University. • Implemented a scheme of Awards and Incentives for the faculty members for their outstanding contribution in teaching and research. • Implemented a scheme of allocating fund for the major research projects. In the first round, funding of ₹ 28.92 Lakhs was allocated to a group of faculty members for an interdisciplinary project. • Organized a two-day national seminar on, 'Outcome based Education'. • Organized four-week Induction Training, two-week Research Orientation and two-week Orientation Programme for the faculty members of the constituent institutes. • Organized four-week Training Programme for the Assistant Registrars and Equivalent Cadre and Office Superintendents and Equivalent Cadre. • Organized three-day training programme for the Laboratory Assistants and Computer Operators of the constituent institutes. • Organized a Training Programme equivalent to two-weeks for the Office Assistants and Staff of Equivalent Cadre. 								
2.15	<p>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):</p> <table border="1" data-bbox="488 1614 1390 1902"> <thead> <tr> <th data-bbox="488 1614 902 1671">Plan of Action</th> <th data-bbox="902 1614 1390 1671">Achievements</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1671 902 1759">To prepare for the 2nd cycle of the NAAC accreditation.</td> <td data-bbox="902 1671 1390 1759">The University underwent the 2nd cycle of the NAAC accreditation during October 2015 and obtained 'A' grade with CGPA 3.18.</td> </tr> <tr> <td data-bbox="488 1759 902 1877">To strengthen the collaborative research activities.</td> <td data-bbox="902 1759 1390 1877">The University signed a MoU with Space Applications Centre (SAC), ISRO, Ahmedabad and initiated collaborative research activities.</td> </tr> <tr> <td data-bbox="488 1877 902 1902">To implement a scheme of providing</td> <td data-bbox="902 1877 1390 1902">The scheme was implemented and in the first</td> </tr> </tbody> </table>	Plan of Action	Achievements	To prepare for the 2 nd cycle of the NAAC accreditation.	The University underwent the 2 nd cycle of the NAAC accreditation during October 2015 and obtained 'A' grade with CGPA 3.18.	To strengthen the collaborative research activities.	The University signed a MoU with Space Applications Centre (SAC), ISRO, Ahmedabad and initiated collaborative research activities.	To implement a scheme of providing	The scheme was implemented and in the first
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	<p>fund to the faculty members for the major research projects.</p> <p>To implement a scheme of Awards and Incentives for the faculty members.</p> <p>To prepare the Rules for Preventing Plagiarism.</p> <p>To strengthen the Academic Audit at the constituent institutes of the University.</p> <p>To organize Faculty Development Programmes on a larger scale</p>	<p>round a major research project with a funding of ₹ 28.92 Lakhs was allocated to a group of faculty members.</p> <p>The scheme was implemented and during the assessment period, six faculty members have been awarded.</p> <p>It is finalized and necessary approval from the competent authority of the University obtained. The same is circulated amongst the faculty, students and staff.</p> <p>The detailed guidelines and formats were decided for Academic Audit at three different levels. The University Level Academic Audit was conducted at all the constituent institutes of the University.</p> <p>A four-week Faculty Induction, two-week Faculty Orientation a two-week Research Orientation Programmes were organized. Several Refresher Programmes were also organized. Structured training programmes for the laboratory Assistants, Computer Operators, Office Assistants, Office Superintendents, etc. were organized.</p>
2.16	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

1.	Curricular Aspects:																																											
	1.1	Details about Academic Programmes:																																										
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		<p>* For five PG Programmes, the admissions have been kept in abeyance during the academic year 2015-16.</p> <p>List of Inter-disciplinary and Innovative Academic Programmes:</p> <ol style="list-style-type: none"> 1. M.Tech. in Energy System (Interdisciplinary Programme) 2. M.Tech. by Research (Innovative Programme) 3. M.Sc. in Cosmetic Technology (Innovative & Inter-disciplinary Programme) 4. LL.M. in Legal Pedagogy and Research (Innovative Programmes) 5. LL.M. in Law, Science and Technology (Innovative & Inter-disciplinary Programme) 6. MBA in Family Business & Entrepreneurship (Innovative Programme) 7. BBA-MBA (Five Year Integrated Innovative Programme) 8. M.Pharm. Regulatory Affairs and Quality Assurance (Innovative Programmes) 9. M.Pharm. Clinical Pharmacy (Innovative Programmes) 																																										
	1.2 (i)	Flexibility of the Curriculum:																																										
		<ul style="list-style-type: none"> • Department, Institute and University electives option in curriculum. • Provision for Supplementary Courses, Enrichment (Valued Added) Courses and Special Audit Courses. • Choice of foreign language course from a pool of foreign language courses. • Massive Online Open Courses (MOOCs) are also offered as non-credit courses. • 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. • General Electives for MBA (Full Time) students at Institute of Management. 																																										

1.2 (ii)	Pattern of Programmes:							
	Pattern		Number of Programmes					
	Semester		48					
	Trimester		07					
Annual		--						
1.3	Feedback from Stakeholders:							
	Alumni	√	Parents	√	Employers	√	Students	√
	Online	√	Manual	√	Co-operating schools (for PEI)	-----		
Analysis of the feedback is provided in the Annexure-2.								
1.4	Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.							
	Yes, the syllabi of various programmes have been revised / updated. The salient features have been listed in Annexure-3.							
1.5	Any new Department/Centre introduced during the year. If yes, give details.							
	<ul style="list-style-type: none"> Centre for Child Rights Advocacy (CCRA) at the Institute of Law. IP Clinic under Centre for Intellectual Property at the Institute of Law. 							

CRITERION – II

2.	Teaching, Learning and Evaluation:					
	2.1	Total No. of Permanent Faculty:				
Sanctioned Posts		Filed Posts				
Total	Total	Assistant Professors	Associate Professors	Professors	Others	
427	332	212	62 ^{\$}	45	5*+8#	
<p>* Adjunct Faculty # Adhoc Assistant Professor</p> <p>^{\$}Includes 14 Assistant Professors having AGP of ₹8000/- have been considered against the post of Associate Professors.</p>						

2.3	<p>No. of Faculty Positions Recruited (R) and Vacated (V) during the Year:</p> <table border="1" data-bbox="467 268 1334 394"> <thead> <tr> <th colspan="2">Assistant Professors</th> <th colspan="2">Associate Professors</th> <th colspan="2">Professors</th> <th colspan="2">Others</th> <th colspan="2">Total</th> </tr> <tr> <th>R</th> <th>V</th> <th>R</th> <th>V</th> <th>R</th> <th>V</th> <th>R</th> <th>V</th> <th>R</th> <th>V</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>29</td> <td>10</td> <td>04</td> <td>05</td> <td>04</td> <td>04*+07#</td> <td>03*+26#</td> <td>76</td> <td>66</td> </tr> </tbody> </table> <p>* Adjunct Faculty # Adhoc Assistant Professor</p> <p>Note: V is the number of faculty positions vacated during the assessment period.</p>	Assistant Professors		Associate Professors		Professors		Others		Total		R	V	R	V	R	V	R	V	R	V	50	29	10	04	05	04	04*+07#	03*+26#	76	66		
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2.5	<p>Faculty Participation in Conferences and Symposiums during April 1, 2015 to June 30, 2015:</p> <table border="1" data-bbox="493 909 1308 1104"> <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>07</td> <td>43</td> <td>11</td> </tr> <tr> <td>Presented papers</td> <td>18</td> <td>07</td> <td>00</td> </tr> <tr> <td>Resource Persons</td> <td>05</td> <td>08</td> <td>00</td> </tr> </tbody> </table> <p>Faculty Participation in Conferences and Symposiums during July 1, 2015 to June 30, 2016:</p> <table border="1" data-bbox="493 1245 1308 1415"> <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</td> <td>54</td> <td>117</td> <td>07</td> </tr> <tr> <td>Presented papers</td> <td>189</td> <td>54</td> <td>01</td> </tr> <tr> <td>Resource Persons</td> <td>12</td> <td>31</td> <td>07</td> </tr> </tbody> </table>	No. of Faculty	International Level	National Level	State Level	Attended Seminars Workshops	07	43	11	Presented papers	18	07	00	Resource Persons	05	08	00	No. of Faculty	International Level	National Level	State Level	Attended Seminars	54	117	07	Presented papers	189	54	01	Resource Persons	12	31	07
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2.6	<p>Innovative Processes adopted by the Institution in Teaching and Learning:</p> <p>For details, please refer to Annexure-4.</p>																																
2.7	<p>Total No. of Actual Teaching Days during this Academic Year:</p> <p style="text-align: center;">189</p>																																

2.8	<p>Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions):</p> <ul style="list-style-type: none"> • 60% of grading is under the Continuous Evaluation (CE) component, which includes Term Assignments, Class Tests, Quizzes, Laboratory Practical Work, etc. • Online multiple choice examinations as a part of continuous evaluation. • Open book examination. • Assessed answer sheets of all the examinations are shown to the students. • Review of quality of question papers. 						
2.9	<p>No. of Faculty Members involved in Curriculum Restructuring / Revision / Syllabus Development as Member of Board of Study / Faculty / Curriculum Development Workshop:</p> <table border="1" data-bbox="474 814 1328 919"> <thead> <tr> <th>Board of Studies / Area Committees</th> <th>Faculty</th> <th>Curriculum Development Workshops</th> </tr> </thead> <tbody> <tr> <td>137</td> <td>56</td> <td>All Faculty Members</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	137	56	All Faculty Members
Board of Studies / Area Committees	Faculty	Curriculum Development Workshops					
137	56	All Faculty Members					
2.10	<p>Average Percentage of Attendance of Students:</p> <p style="text-align: center;">85%</p>						
2.11	<p>Course/Programme wise Distribution of Pass Percentage :</p> <p>For details, please refer to Annexure-5.</p>						
2.12	<p>How does IQAC Contribute / Monitor / Evaluate the Teaching & Learning Processes :</p> <ul style="list-style-type: none"> • Internal Quality Assurance Cell (IQAC) is conceived as a mechanism 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. • The University has a mechanism of 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 by an independent committee which 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 						

	<p>different academic, research, extension and related aspects of the constituent institutions. It is important to note that IQAC plays very important role in conducting these audits.</p> <ul style="list-style-type: none"> • Taking feedback from different stake holders, analysing and to take necessary actions. • Implementation of various policies introduced by the University. • Organizing value added seminars/workshops for the faculty members and staff. • Introducing modern pedagogy techniques to the faculty members. 																																	
2.13	<p>Initiatives undertaken Towards Faculty Development:</p> <table border="1"> <thead> <tr> <th>Faculty / Staff Development Programmes</th> <th>Number of faculty Benefitted during April 1, 2015 to June 30, 2015</th> <th>Number of faculty Benefitted during July 1, 2015 to June 30, 2016</th> </tr> </thead> <tbody> <tr> <td>Refresher Courses</td> <td>80</td> <td>088</td> </tr> <tr> <td>UGC – Faculty Improvement Programme</td> <td>00</td> <td>028</td> </tr> <tr> <td>HRD Programmes</td> <td>23</td> <td>000</td> </tr> <tr> <td>Orientation Programmes</td> <td>34</td> <td>069</td> </tr> <tr> <td>Faculty Exchange Programme</td> <td>00</td> <td>000</td> </tr> <tr> <td>Staff Training conducted by the University</td> <td>09</td> <td>097</td> </tr> <tr> <td>Staff Training conducted by other institutions</td> <td>10</td> <td>032</td> </tr> <tr> <td>Summer / Winter schools, Workshops, etc.</td> <td>68</td> <td>104</td> </tr> <tr> <td>Industrial Training</td> <td>04</td> <td>027</td> </tr> <tr> <td>Others</td> <td>06</td> <td>074</td> </tr> </tbody> </table>	Faculty / Staff Development Programmes	Number of faculty Benefitted during April 1, 2015 to June 30, 2015	Number of faculty Benefitted during July 1, 2015 to June 30, 2016	Refresher Courses	80	088	UGC – Faculty Improvement Programme	00	028	HRD Programmes	23	000	Orientation Programmes	34	069	Faculty Exchange Programme	00	000	Staff Training conducted by the University	09	097	Staff Training conducted by other institutions	10	032	Summer / Winter schools, Workshops, etc.	68	104	Industrial Training	04	027	Others	06	074
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2.14	<p>Details of Administrative and Technical Staff:</p> <table border="1"> <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>127</td> <td>53</td> <td>15</td> <td>05</td> </tr> <tr> <td>Technical Staff</td> <td>101</td> <td>29</td> <td>07</td> <td>01</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	127	53	15	05	Technical Staff	101	29	07	01																		
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Technical Staff	101	29	07	01																														

CRITERION – III

3.	Research, Consultancy and Extension:	
3.1	Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the	

	<p>institution: The IQAC has been instrumental in promoting the research climate in the institutes in the following ways:</p> <ul style="list-style-type: none"> • Implementation of University Research Policy. • Organizing two-week Research Orientation Programme, workshops/seminars on IPR issues, Research Paper / Proposal writing, etc. • Encouraging faculty members to submit project proposals to various funding agencies. • Faculty awards for outstanding contribution in research. • Funding for major and minor research projects. • Preparation of the Annual Research Report. • Prepared policy to prevent plagiarism. • Discussion on possible areas of research at the department level on regular interval. • Signed MoU with Space Application Centre (SAC-ISRO) for collaborative research activities. • Strict implementation of the UGC Performance Based Appraisal System (PBAS), Category – 3 (Research and Academic Contribution). 																				
3.2	<p>Details regarding Major (Externally Funded) Projects:</p> <table border="1" data-bbox="492 926 1373 1016"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> <th>Submitted</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td>06</td> <td>28</td> <td>01</td> <td>32</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td>103.80</td> <td>674.308</td> <td>--</td> <td>1544.25</td> </tr> </tbody> </table>		Completed	Ongoing	Sanctioned	Submitted	Number	06	28	01	32	Outlay In ₹ in Lakhs	103.80	674.308	--	1544.25					
	Completed	Ongoing	Sanctioned	Submitted																	
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3.3	<p>Details regarding Minor (Externally Funded) Projects:</p> <table border="1" data-bbox="480 1157 1385 1262"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> <th>Submitted</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td>4</td> <td>39</td> <td>01</td> <td>04</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td>14.45</td> <td>160.24</td> <td>11.00</td> <td>27.77</td> </tr> </tbody> </table>		Completed	Ongoing	Sanctioned	Submitted	Number	4	39	01	04	Outlay In ₹ in Lakhs	14.45	160.24	11.00	27.77					
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Number	4	39	01	04																	
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3.4	<p>Details on Research Publications:</p> <table border="1" data-bbox="553 1360 1312 1535"> <thead> <tr> <th></th> <th>International</th> <th>National</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>Peer Review Journals</td> <td>163</td> <td>63</td> <td>--</td> </tr> <tr> <td>Non-Peer Review Journals</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>e-Journals</td> <td>43</td> <td>--</td> <td>--</td> </tr> <tr> <td>Conference Proceedings</td> <td colspan="3">248</td> </tr> </tbody> </table>		International	National	Others	Peer Review Journals	163	63	--	Non-Peer Review Journals	--	--	--	e-Journals	43	--	--	Conference Proceedings	248		
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3.5	<p>Details on Impact Factor of Publications:</p> <table border="1" data-bbox="443 1688 1406 1892"> <thead> <tr> <th>Impact Factor Range</th> <th>Impact Factor Average 2.30#</th> <th>h-index Maximum =14 Minimum =1</th> </tr> </thead> <tbody> <tr> <td>It varies in the range of 0.1 to 8.83.</td> <td># In calculating the average impact factor, only those papers of international journals are considered for</td> <td></td> </tr> </tbody> </table>	Impact Factor Range	Impact Factor Average 2.30#	h-index Maximum =14 Minimum =1	It varies in the range of 0.1 to 8.83.	# In calculating the average impact factor, only those papers of international journals are considered for															
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		which valid impact factor is available.															
3.6	Research Funds Sanctioned and received from Various Funding Agencies, Industry and Other Organisations:																
	Summary of Total Grant Received During the Financial Year 2015-16 (April 01, 2015 to March 31, 2016)																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Nature of the Project</th> <th style="width: 30%;">Total Funding Received during the Year (in ₹)</th> </tr> </thead> <tbody> <tr> <td>Externally funded Major /Minor Projects</td> <td style="text-align: right;">*2,28,30,227/-</td> </tr> <tr> <td>Industry Sponsored Projects</td> <td style="text-align: right;">1,74,649/-</td> </tr> <tr> <td>Major /Minor Projects Sponsored by Nirma University</td> <td style="text-align: right;">14,09,271/-</td> </tr> <tr> <td>Idea Lab Projects (other than made compulsory by the University)</td> <td style="text-align: right;">3,90,433/-</td> </tr> <tr> <td style="text-align: right;">Total</td> <td style="text-align: right;">2,48,04,640/-</td> </tr> </tbody> </table>				Nature of the Project	Total Funding Received during the Year (in ₹)	Externally funded Major /Minor Projects	*2,28,30,227/-	Industry Sponsored Projects	1,74,649/-	Major /Minor Projects Sponsored by Nirma University	14,09,271/-	Idea Lab Projects (other than made compulsory by the University)	3,90,433/-	Total	2,48,04,640/-	
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	<p>Note: *Total sanctioned amount for the ongoing externally funded Major /Minor projects is ₹ 783.85 Lakhs. Details of all the projects can be found in Annexure-6.</p>																
3.7	No. of Books Published:																
	With ISBN No	19	Without ISBN No.	--	Chapters in Edited Books												
					04												
3.8	No. of University Departments receiving Funds from:																
	UGC-SAP	Being a statutory private University, we are not covered under Section 12 (B) of the UGC Act and hence not eligible for such funding from UGC.															
	CAS																
	DPE																
	DST-FIST																
	DBT Scheme/funds																
		Institute of Pharmacy has received a funding of ₹ 55 Lakhs under FIST programme from the Department of Science and Technology, New Delhi.															
		Faculty members are receiving funds from DST and DBT for their research projects.															
3.9	For Colleges:																
	Autonomy	Not Applicable															
	CPE	Not Applicable															
	DBT Star Scheme	Not Applicable															
	INSPIRE	Not Applicable															
	CE	Not Applicable															
	Any Other (specify)	Not Applicable															
3.10	Revenue generated through Consultancy:																
	During April 01, 2015 to March 31, 2015				₹ 99,64,722/-												

3.11	No. of Conferences Organized by the Institution during April 1, 2015 to June 30, 2016:					
	Level	International	National	State	University	Institute
	Number	4	6	--	--	--
	Sponsoring Agencies	<ul style="list-style-type: none"> • Nirma University • VLSI Society of India • CC-Link Partner Association – India • Hathi Cement - Sidhee Cement • Naroda Environmental Projects Pvt. Ltd. • InspirOn Engineering Pvt. Ltd. • Techniks Infotech Pvt. Ltd. • Gujarat Council on Science and Technology • Inductotherm Group India • All Tech Electronics • Edutech Engineering Lab Solutions • AIMIL Ltd. • S. Chand and Company Pvt. Ltd. • Department of Bio Technology • DRDO • BAN Labs • Nirlife • Adani • TaTa Consultancy Services Ltd. • IFFCO • MMC • Erhardt Leimer • Wagh Bakri • Orient Blackswan • Vrdian Ventures • Meca Care • Manupatra Information Solutions Pvt. Ltd. • International Committee of Red Cross (ICRC) • United Nations High Commissioner for Refugees (UNHCR) • Gujarat Pollution Control Board (GPCB) 				
3.12	No. of Faculty served as Experts, Chairpersons or Resource Persons during April 1, 2015 to June 30, 2015:					81
	No. of Faculty served as Experts, Chairpersons or Resource Persons during July 1, 2015 to June 30, 2016:					138
3.13	No. of Collaborations:					
	International	07	National	14	Any Other	01
3.14	No. of Linkages created during April 1, 2015 to June 30, 2015:					659
	No. of Linkages created during July 1, 2015 to June 30, 2016:					1315
3.15	Total Budget for Research for Current Year in Lakhs :					

	From Funding Agencies	From Management of University / Institute	Total																	
	₹ 2,30,04,936/-	₹ 7,62,99,300/-	₹ 9,93,04,236/-																	
3.16	No. of Patents Filed during April 1, 2015 to June 30, 2015:		02																	
	No. of Patents Published during April 1, 2015 to June 30, 2015:		01																	
	No. of Patents Granted during April 1, 2015 to June 30, 2015:		00																	
	No. of Patents Filed during July 1, 2015 to June 30, 2016:		02																	
	No. of Patents Published during July 1, 2015 to June 30, 2016:		02																	
	No. of Patents Granted during July 1, 2015 to June 30, 2016:		00																	
3.17	No. of Research Awards / Recognitions received by Faculty and Research Fellows of the University during April 1, 2015 to June 30, 2015:																			
	<table border="1"> <thead> <tr> <th>Total</th> <th>International</th> <th>National</th> <th>State</th> <th>University</th> <th>District</th> <th>Institute</th> </tr> </thead> <tbody> <tr> <td>04</td> <td>00</td> <td>02</td> <td>02</td> <td>00</td> <td>00</td> <td>00</td> </tr> </tbody> </table>						Total	International	National	State	University	District	Institute	04	00	02	02	00	00	00
Total	International	National	State	University	District	Institute														
04	00	02	02	00	00	00														
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Total	International	National	State	University	District	Institute														
20	10	10	00	00	00	00														
3.18	No. of Faculty from the Institution who are Ph. D. Guides:																			
	86^{&}																			
	<p>^{&} The above-total is inclusive of seven (07) faculty members, who have resigned / superannuated but guiding the Ph.D. students.</p>																			
	Students Registered under Ph. D. Guides:																			
	305																			
3.19	No. of Ph.D. Awarded to the Faculty from the Institution:																			
	04																			
3.20	No. of Ph.D. Research Scholars receiving the Fellowships from NU:		24																	
	No. of Ph.D. Research Scholars receiving the Fellowships from other Agencies:		28																	
	No. of PG students receiving the Fellowships from other Agencies:		00																	
	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.																			

3.21	No. of Students Participated in NSS events:							
	University Level	500	State Level	05	National Level	--	International Level	--
3.22	No. of Students Participated in NCC events:							
	University Level	--	State Level	--	National Level	--	International Level	--
3.23	No. of Awards won in NSS:							
	University Level	--	State Level	--	National Level	--	International Level	--
3.24	No. of Awards Won in NCC:							
	University Level	--	State Level	--	National Level	--	International Level	--
3.25	No. of Extension Activities Organized:							
	University Forum	No. of Extension Activities Organized during April 1, 2015 to June 30, 2015			No. of Extension Activities Organized during July 1, 2015 to June 30, 2016			
	Institute Forum	05			94			
	NCC	00			00			
	NSS	01			08			
	Any Other	00			35			
3.26	Major Activities during the Year in the Sphere of Extension Activities and Institutional Social Responsibility:							
	<p><u>Institute of Technology</u></p> <ul style="list-style-type: none"> As a part of curriculum, the students have worked with various NGOs during July to November 2015. The students of Chemical Engineering visited the Hiramani Sandhya-Jeevan Kutir, Ahmedabad on October 03, 2015. As a part of extension activity, the students of Miroli Village School visited Nirma University. The activity was conducted by the Civil Engineering Department on October 10, 2015. Similarly, the Mechanical Engineering Department arranged a visit for the orphanage students. Fund collection for the needy school students during April 06-15, 2015. One-day workshop on, 'Modern Electronics Measurement Instruments and Simulation Tools' was organized for the ITI students on April 09, 2016. Sweet Distribution was arranged on the occasion of Diwali to the house keeping staff of Nirma University on November 07, 2015. Tobacco Awareness and Clean India Campaign. The students visited a mega kitchen 'Akshay Patra'. Electrical Engineering Students Association (EESA) organized 							

		<p>extension activity event named INICIO - The Beginning, at Prakash Higher Secondary School, Ahmedabad on September 19, 2015.</p> <ul style="list-style-type: none"> • Electrical Engineering Department organized a one-day workshop for the students of ITI, Gandhinagar on February 06, 2016. During the workshop, the students were briefed about power transmission, distribution and generation of power through renewable energy sources. • ISA Students' Chapter of Nirma University organized a unique activity <i>Nanhi - Udaan</i> for the mentally challenged students of Prakash School. • An event - <i>AUTOCALYPSE 2016</i> was arranged for the high school students on technical knowhow of Automobiles. • Digital literacy campaign was organized to provide basic computer literacy to the secondary school children. • The students took the project to develop Android Application for the Akshaypatra Foundation, Ahmedabad to optimize their mid-day meal distribution. <p><u>Institute of Management</u></p> <ul style="list-style-type: none"> • <i>Saral</i> - is an initiative at the Institute of Management towards spreading of knowledge and education among the children of construction labourers. • The Institute offers a compulsory field course called 'Managing Social Projects'. The students were involved in social work with different NGOs. The students have also conducted several extension activities under the Rotaract Club. <p><u>Institute of Pharmacy</u></p> <ul style="list-style-type: none"> • Plantation Drive at Lakulish Yoga University on Aug. 02, 2015. • Cleanliness drive on August 08, 2015. • Anti-Tobacco Drive on August 22, 2015. • Blood Donation Camp in Association with Red Cross Ahmedabad on September 29, 2015. • Awareness Program on Health, Hygiene and Safety on October 03, 2015. • Awareness Program on Importance of Education on February 13, 2016. • Awareness camp on Pollution and Influence of Environment on Health on March 05, 2016. • Awareness Camp on Importance of Hygiene on March 12, 2016. • Awareness Camp on Emergency and First Aid on March 19, 2016. • Awareness Camp on Communicable and Infectious Disease on April 02, 2016. • Awareness Camp on Importance of Herbs in Day to Day Life on April 09, 2016. • Guest lecture on Our Responsibilities towards the society on April 16, 2016. <p><u>Institute of Science</u></p> <ul style="list-style-type: none"> • Student Association of the Institute arranged display and sale of Greeting Cards made by the students and collected money, which was donated to the Hiramani Jivan Sandhya Old Age Home.
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		<ul style="list-style-type: none"> • The students and the Faculty Coordinator visited Hiramani Jivan Sandhya Old Age home on December 18, 2015. Various useful items for daily usage were gifted to the inmates. The students arranged entertaining activities for the inmates. • The students and the Faculty Coordinator visited Centre for Special Children January 01, 2016. Kits including personal care items were distributed to 50 children. • The students donated stationary items to VolunTeacher - NGO for rural education. • A survey on Awareness towards Diabetes was conducted by the students. • A survey on Safe use of Cell-phones was conducted by the students. <p><u>Institute of Law</u></p> <ul style="list-style-type: none"> • Every Tuesday, a group of students provide free legal services to the prisoners at Sabarmati Jail, Ahmedabad. • The Legal Aid Clinic of the Institute in collaboration with Legal Service Authorities, Gandhinagar have taken up the drive to bring legal awareness among the rural masses. Selected students underwent training as Para Legal Volunteers. On April 14, these volunteers organized awareness programme covering social issues, like prohibition of child marriage, elimination of child labour, prohibition of smoking and consumption of liquor, protection of woman from domestic violence, etc. • A Legal Literacy Camp was organized at Tarapur Primary School on June 27, 2015. • A Legal Literacy Camp was organized at Shertha Primary School on June 29, 2015. • Legal awareness workshop was conducted at Kadi Sarva Vishwa Vidhyalaya on August 08, 2015. • The final year students conducted Legal Literacy Workshops with a theme on Gender Sensitization at various places, including schools, old age homes, institutions for disabled, academic institutions, BPOs, juvenile homes. • The Legal Aid Committee in association with Centre for Social Justice, Ahmedabad, organized a three-day workshop for para legal volunteers on the topic of 'Role of Paralegals in Enhancing Access to Justice' during March 12-14, 2016. • The Centre for Child Rights Advocacy in association with the Gujarat State Child Protection Society, Gandhinagar, organized a one-day orientation programme for the Judicial Officers on Juvenile Justice (Care and Protection of Children) Act, 2015 on May 01, 2016. <p><u>Institute of Architecture</u></p> <ul style="list-style-type: none"> • The students of third semester undertook extension activities with an NGO – SAATH as part of their course curriculum.
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CRITERION – IV

4. Infrastructure and Learning Resources:																																					
4.1	Details of increase in Infrastructure Facilities:																																				
	<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>-</td> <td>128</td> </tr> <tr> <td>*Laboratories</td> <td>53</td> <td>-</td> <td>53</td> </tr> <tr> <td>Seminar Halls</td> <td>5</td> <td>-</td> <td>5</td> </tr> <tr> <td>No. of important equipment purchased (\geq 1 lakh) during the current year.</td> <td>-</td> <td>36</td> <td>280</td> </tr> <tr> <td>Value of the equipment (cost above 1 lakh) purchased during the year (₹ in Lakhs)</td> <td>-</td> <td>98.84</td> <td>-</td> </tr> <tr> <td>Value of the equipment (cost below 1 lakh) purchased during the year (₹ in Lakhs)</td> <td>-</td> <td>108.75</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	-	128	*Laboratories	53	-	53	Seminar Halls	5	-	5	No. of important equipment purchased (\geq 1 lakh) during the current year.	-	36	280	Value of the equipment (cost above 1 lakh) purchased during the year (₹ in Lakhs)	-	98.84	-	Value of the equipment (cost below 1 lakh) purchased during the year (₹ in Lakhs)	-	108.75	-		
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	<p>*Note: During the assessment period, 14 class/tutorial rooms, studios and 7 laboratories were renovated.</p> <p>A big project of constructing a multi-storied building comprising class-rooms, faculty rooms, cafeteria, auditorium, student facilities, etc. has been initiated during the assessment period and approximately ₹ 40 Crores have been spent during the financial year 2015-16.</p>																																				
4.2	Computerization of Administration and Library:																																				
	<ul style="list-style-type: none"> The administrative blocks and the libraries of the University are fully computerised. Most of the constituent institutes are using 'Online Admission Module'. Feedback from stake-holders, including students, parents and alumni are obtained online. MIS has been procured and different modules related to administration are in the process of implementation. KOHA (open source software) has been successfully implemented in all the libraries of the constituent institutes. All libraries have added a new module that helps in automatic ordering, receiving and creating of bound volumes of periodicals. Library of the Institute of Law has developed Android based Library Mobile Apps. 																																				

4.3 Library Services:

Particulars	Existing		Newly added (April 01, 2015 to June 30, 2015)		Total	
	No.	Value	No.	Value	No.	Value
Text Books	92167	36294563.38	186	355637.18	92353	36650200.56
Reference Books	13810	43554692.56	239	652407.93	14049	44207100.49
e-Books	715	285518.00	14	---	729	285518.00
Journals	641	10249909.05	---	---	655	3373742.54
e-Journals	15429	14118791.22	---	---	15395	14425959.59
Digital Database	22	4031605.00	---	---	24	3443746.00
CD & Videos	1813	2130381.76	---	---	1813	2130381.76
Others	2949	2930532.23	---	---	2949	2930532.23

Particulars	Existing		Newly added (July 01, 2015 to June 30, 2016)		Total	
	No.	Value	No.	Value	No.	Value
Text Books	92353	36650200.56	3680	3007066.52	96033	39657267.08
Reference Books	14049	44207100.49	507	1601674.05	14556	45808774.54
e-Books	729	285518.00	---	---	729	285518.00
Journals	655	3373742.54	547	1873512.46	643	2600934.46
e-Journals	15395	14425959.59	16342	15978021.32	18706	16230051.32
Digital Database	24	3443746.00	8	1727980.00	24	3534992.00
CD & Videos	1813	2130381.76	160	13300.00	1973	2143681.76
Others	2949	2930532.23	265	74943.00	3214	3005475.23

4.4 Technology Up gradation (overall):**Institute of Technology**

- Additional Wi-Fi access points were installed to enhance the connectivity.
- Printers of all the blocks were replaced with the printers with better speed and printing quality.
- Purchased *Escan* Anti-Virus software (240 licenses).
- Purchased *Visual Studio 2015 Professional* (60 licenses).
- A dedicated laboratory with 66 computer systems was established, especially for the project students.
- Surveillance system extended to parking area and entry points of each block.
- Inter building LAN connectivity has been enhanced by installing necessary hardware.
- Upgraded Internet Bandwidth from 128 mbps to 256 mbps.
- At Institute of Technology, more than 60 computer systems were replaced with the latest hardware.

	<p><u>Institute of Pharmacy</u></p> <ul style="list-style-type: none"> Installed new Wi-Fi access points in library area, new class rooms and PG area. <p><u>Institute of Law</u></p> <ul style="list-style-type: none"> A smart classroom, equipped with the latest ICT facilities is in operation at the institute. <p><u>Institute of Architecture</u></p> <ul style="list-style-type: none"> Purchased software like, <i>Correl Draw, Sketch Up Pro 2016</i>. Purchased 21 desk top computers and 7 Mac Book Laptops. 										
4.5	<p>Computer, Internet access, Training to Teachers and Students and any other Programme for Technology Up-gradation (Networking, e-Governance etc.):</p> <p>The University has given laptops/desktop computers to all the faculty members with internet access. The following training programmes were organized during the assessment period:</p> <ul style="list-style-type: none"> Three-day training programme was organized by the Academic Development & Research Cell for the Computer Operators cum Programmers of the University. The topics, like Computer Networks, Data Security, Hardware, etc. were covered during the programme. During training programme for Office Superintendents and Assistant Registrars, different ICT tools which are useful in university administration work, were discussed. Institute of Management organized a half-day cyber security workshop, awareness session on <i>LMS-MOODLE</i>, and a week-long hands-on training programme on SPSS (Statistical Package for Social Sciences) for the students. Two workshops were conducted by simulation team of Tata Simulations and Harvard Simulations at the Institute of Management. Institute of Science trained all the faculty members in blog preparation and its uses in teaching-learning process. Also, one faculty member took training on website development. 										
4.6	<p>Amount Spent on Maintenance:</p> <table border="1"> <tr> <td>ICT (Computers):</td> <td>₹ 16,51,900/-</td> </tr> <tr> <td>Campus Infrastructure and facilities: (Including Buildings and Furniture)</td> <td>₹ 3,51,97,375/-</td> </tr> <tr> <td>Equipment:</td> <td>₹ 6,20,765/-</td> </tr> <tr> <td>Others:</td> <td>₹ 42,42,772/-</td> </tr> <tr> <td style="text-align: right;">Total</td> <td>₹ 4,17,12,812/-</td> </tr> </table>	ICT (Computers):	₹ 16,51,900/-	Campus Infrastructure and facilities: (Including Buildings and Furniture)	₹ 3,51,97,375/-	Equipment:	₹ 6,20,765/-	Others:	₹ 42,42,772/-	Total	₹ 4,17,12,812/-
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CRITERION – V

5.	Student Support and Progression:																			
5.1	<p>Contribution of IQAC in Enhancing Awareness about Student Support Services:</p> <p>The University has a well-defined mentoring policy to support the students for sharing their problems related to academic and non-academic matters. As per the policy, each faculty member is assigned a group of students to advise/guide for the duration of their study on the campus. After group allocation, the mentor plans for a preliminary meeting with the students. During this meeting, the students are briefed about the mentoring process and ask them to fill their basic information in a mentoring form. The mentors meet and interact with the students at least twice during the semester. Based on these interactions, the mentor classifies the students into three categories, namely slow, advanced and weak learners. Depending upon the category of the students, he/she is guided to grow and develop. The summary reports of mentoring are sent to the concerned Head of the Department / Section Head.</p>																			
5.2	<p>Efforts made by the University for Tracking the Progression:</p> <ul style="list-style-type: none"> • For tracking the academic progress of the current batch students, the continuous evaluation system is in place. 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. • For tracking the progress of the passed out students, social media /electronic media is used. Alumni members are contacted from time to time and also invited to attend Alumni Meets. 																			
5.3	<p>(a) Total Number of Students:</p> <table border="1" data-bbox="643 1230 1183 1293"> <thead> <tr> <th>UG</th> <th>PG</th> <th>Ph. D.</th> <th>Others #</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>4941</td> <td>2096</td> <td>350</td> <td>-</td> <td>7387</td> </tr> </tbody> </table> <p>(b) No. of Students Outside the State:</p> <p style="text-align: center;">2151</p> <p>(c) No. of International Students:</p> <p style="text-align: center;">95</p> <table border="1" data-bbox="412 1644 1411 1814"> <tr> <td>Men</td> <td>Women</td> </tr> <tr> <td>No.: 5143</td> <td>No.: 2244</td> </tr> <tr> <td>%: 69.62</td> <td>%: 30.38</td> </tr> </table> <p>Category wise Students:</p> <table border="1" data-bbox="451 1885 1377 1906"> <tr> <td style="text-align: center;">Last Year (2014-15)*</td> <td style="text-align: center;">This Year (2015-16)*</td> </tr> </table>		UG	PG	Ph. D.	Others #	Total	4941	2096	350	-	7387	Men	Women	No.: 5143	No.: 2244	%: 69.62	%: 30.38	Last Year (2014-15)*	This Year (2015-16)*
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General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2134	55	29	213	11	2442	2092	68	43	270	03	2476
*Based on new admission data											
Demand Ratio: 1:9^{&}						Dropout: 4.32 %					
&Considering the admissions offered by Nirma University											
5.4	Details of student support mechanism for coaching for competitive examinations (If any): The constituent institutes of the University and Centre for Continuing Education (CCE) help the students prepare for various competitive exams. These include: <ul style="list-style-type: none"> • The Centre for Continuing Education conducts coaching for GATE Examination. • The Institute of Pharmacy provides Pre-GPAT coaching and examination to the B.Pharm. students. • The Institute of Technology arranges guidance seminars for GATE/GRE through its students' associations. • The Placement Cell of the constituent institutes and the Students' Associations also conduct workshops / awareness programmes for the competitive examinations. 										
	No. of Student Beneficiaries during April 1, 2015 to June 30, 2015:					22					
	No. of Student Beneficiaries during July 1, 2015 to June 30, 2016:					562					
5.5	No. of Students Qualified in these Examinations:										
		During April 1, 2015 to June 30, 2015				During July 1, 2015 to June 30, 2016					
	NET	---				001					
	SET/SLET	---				---					
	GATE	019				061					
	GPAT	020				009					
	CAT	009 (Appeared)				285(Appeared)					
	PG-CLAT	036				049					
	IAS/IPS	---				---					
	State PSC	---				---					
	UPSC	---				001					
	Any Other	062				111					
5.6	Details of Student Counselling and Career Guidance: 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>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"> • Establishing a relationship of trust. • Listening to personal and career/placement concerns of the students. • Responding to the emotional needs of the students without making them dependent on the mentor. • Building a long lasting personal relationship. • 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. • 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. 												
		<table border="1"> <tr> <td data-bbox="414 814 867 848">No. of Students Benefitted:</td> <td data-bbox="867 814 1417 848">All students</td> </tr> </table>	No. of Students Benefitted:	All students										
No. of Students Benefitted:	All students													
5.7		<p>Details of Campus Placement:</p> <table border="1"> <thead> <tr> <th colspan="2" data-bbox="482 957 1084 995">On Campus</th> <th colspan="2" data-bbox="1084 957 1279 995">Off Campus</th> </tr> <tr> <th data-bbox="482 995 659 1100">Number of Organizations Visited</th> <th data-bbox="659 995 872 1100">Number of Students Participated</th> <th data-bbox="872 995 1084 1100">Number of Students Placed</th> <th data-bbox="1084 995 1279 1100">Number of Students Placed</th> </tr> </thead> <tbody> <tr> <td data-bbox="482 1100 659 1150">181</td> <td data-bbox="659 1100 872 1150">1313</td> <td data-bbox="872 1100 1084 1150">871</td> <td data-bbox="1084 1100 1279 1150">68</td> </tr> </tbody> </table>	On Campus		Off Campus		Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed	181	1313	871	68
On Campus		Off Campus												
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed											
181	1313	871	68											
5.8		<p>Details of Gender Sensitization Programmes:</p> <ul style="list-style-type: none"> • Women Education Day was celebrated on August 07, 2015. Approximately, 100 girls from the Government Polytechnic Colleges were invited and were encouraged for higher education. • The Woman Development Cell of the University organized a workshop on ‘Gender Sensitization: Why and for whom’ on September 24, 2015. • The Woman Development Cell of the University organized a one-day training programme for the faculty members on, ‘Sexual Harassment of Women in the Workplace (Prevention, Prohibition and Redressal Act, 2013): Understanding, Working and Procedure’ on September 29, 2015. • On the 20th Foundation Day (October 03, 2015) of the Institute of Technology, the students of Computer Science and Engineering Department performed a drama ‘<i>Bhedbhav</i> (Discrimination)’ to promote gender sensitization. • At Institute of Science, a talk on, ‘Role a Women Scientist’ was delivered by Dr. Purvi Kakadia, Dept. of Molecular Medicine Pathology, University of Auckland, New Zealand on October 28, 2015. • An open forum on ‘Career Barriers for Woman Engineer’ was organized 												

	<p>jointly with Women-In-Engineering Chapter and ISTE Faculty Chapter on February 06, 2016. The objective of the programme was to discuss the issues, understand the challenges and share the ideas.</p> <ul style="list-style-type: none"> • A workshop on, 'Self Defence for Girl Students' was organized for the students of Semester II of B.Pharm., M.Pharm. and M.Sc. on March 01, 2016. • International Women's Day was celebrated on March 08, 2016 on the theme of 'Inspiring Change through Celebration of Womanhood'. 																								
5.9	<p>Students Activities</p> <p>5.9.1 No. of Students Participated in Sports, Games and Other Events:</p> <table border="1"> <tr> <td>University Level</td> <td>583</td> </tr> <tr> <td>National Level</td> <td>003</td> </tr> <tr> <td>International Level</td> <td>---</td> </tr> </table> <p>No. of Students Participated in Cultural Events:</p> <table border="1"> <tr> <td>University Level</td> <td>2169</td> </tr> <tr> <td>National Level</td> <td>023</td> </tr> <tr> <td>International Level</td> <td>---</td> </tr> </table> <p>5.9.2 No. of Medals / Awards Won by Students in Sports, Games and Other Events:</p> <p>Sports:</p> <table border="1"> <tr> <td>University Level</td> <td>160</td> </tr> <tr> <td>National Level</td> <td>---</td> </tr> <tr> <td>International Level</td> <td>---</td> </tr> </table> <p>Cultural:</p> <table border="1"> <tr> <td>State/ University Level</td> <td>143</td> </tr> <tr> <td>National Level</td> <td>001</td> </tr> <tr> <td>International Level</td> <td>---</td> </tr> </table>	University Level	583	National Level	003	International Level	---	University Level	2169	National Level	023	International Level	---	University Level	160	National Level	---	International Level	---	State/ University Level	143	National Level	001	International Level	---
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5.10	<p>Scholarships and Financial Support:</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>871</td> <td>₹ 5,89,01,338/-</td> </tr> <tr> <td>Financial support from government</td> <td>171</td> <td>₹ 49,01,753/-</td> </tr> </tbody> </table>	Particulars	Number of Students	Amount	Financial support from institution (including Scholarship, Fellowship and Stipend)	871	₹ 5,89,01,338/-	Financial support from government	171	₹ 49,01,753/-															
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	Financial support from other sources	22	₹ 38,62,937/-
	Number of students who received International / National recognitions including DST-Fellowship, CSIR-Fellowship and UGC Fellowship	12	₹ 31,94,987/-
5.11	Student Organised / Initiatives: Fairs:		
		During April 1, 2015 to June 30, 2015	During July 1, 2015 to June 30, 2016
	State/ University Level	01	03
	National Level	01	03
	International Level	00	00
	Exhibition:		
		During April 1, 2015 to June 30, 2015	During July 1, 2015 to June 30, 2016
	State/ University Level	02	04
	National Level	00	01
	International Level	00	00
5.12	No. of Social Initiatives Undertaken by the Students:		
	32		
5.13	Major Grievances of Students (if any) Redressed:		
	<ul style="list-style-type: none"> No major grievances received from the students during April 01, 2015 to June 30, 2016. 		

CRITERION – VI

6.	Governance, Leadership and Management:	
6.1	State the Vision and Mission of the University:	
	<p>Vision Shaping a better future for mankind by developing effective and socially responsible individuals and organizations.</p> <p>Mission 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.</p>	

	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.
6.2	<p>Does the University has a Management Information System:</p> <p>Yes.</p> <ul style="list-style-type: none"> The Management Information System is in the process of implementation. Several modules have been executed successfully during the assessment period.
6.3	<p>Quality Improvement Strategies Adopted by the University for each of the Following:</p> <p>6.3.2 Teaching and Learning:</p> <ul style="list-style-type: none"> The University has a mechanism of 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 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. The University lays great emphasis on student centric teaching rather than a teacher centric learning. Implementation of learner centric teaching is made feasible by a well-developed system of Outcome Based Education (OBE) from the year 2013. Formal as well as informal feedback system is practiced for monitoring the system of course delivery. There is an academic review and attendance review system every four weeks during the semester in majority of the institutes. Rigorous faculty training programmes are conducted to improve the quality of pedagogy/teaching. Faculty members are encouraged to use ICT in teaching-learning process. Faculty members and students undergo various MOOCs (Massive Online Open Courses) on regular basis. Expert lectures are organized for the students on regular basis. <p>6.3.3 Examination and Evaluation:</p> <ul style="list-style-type: none"> The University follows Continuous Evaluation system and thus understands and appreciates the formative assessment of the students. The University has a very systematic Manual for Conduct of Examinations. All the students are provided 'Student Handbook', which includes all the rules and regulations of examination. For each subject /course of semester end examination, the Paper

		<p>Setters submit two sets of the question papers and out of these two sets, the Dean and the Executive Registrar pick up any one and the same is used for the purpose of the respective examination.</p> <ul style="list-style-type: none"> • In order to deal with the cases of examination malpractice, a separate 'Examination Reforms Committee' is appointed by the Director General. • For smooth and fair conduction of the semester end examinations, along with the senior supervisors, observers are also appointed by the university. • Provision is also made to show the assessed answer books of sessional as well as semester end examinations to the concerned students. • In order to check the quality 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. • Rubrics are prepared for the evaluation of different components of a course. <p>6.3.4 Research and Development:</p> <ul style="list-style-type: none"> • Research and Development is also given top priority in the strategic planning. More emphasis is given to increase research, consultancy and testing in interdisciplinary areas. • Overall at the University level, Faculty of Doctoral Studies and Research (FDSR) monitors and facilitates research. • The University has framed a very systematic 'Research Policy' which provides guidelines for all research related activities. • The University provides seed money for minor research projects and funding up ` 30 Lakhs for major research projects. • The University provides financial support to faculty for attending national / international conferences abroad/within India. • Encouraging faculty members to undertake collaborative / sponsored projects. • The University regularly organizes international /national Conferences. • Availability of modern library facilities including e-journals and other latest Learning Resources have provided great support to Ph.D., PG and UG students. • The University has introduced a scheme of Awards & Incentives for faculty members to appreciate their outstanding contribution in research. • Intensive Research Orientation programmes are organized on regular basis for the faculty members. • During the assessment period, a policy to prevent the plagiarism has been framed. <p>6.3.5 Library, ICT and Physical Infrastructure / Instrumentation:</p>
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	<p><u>Library:</u></p> <ul style="list-style-type: none"> • The University has formed 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. Similarly, all the constituent institutes have Library Committees for smooth functioning and for regularly reviewing the growth of the libraries. • 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 & Electronic Resources, and (iv) Library Automation. • 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 for quality services. <p><u>ICT:</u></p> <ul style="list-style-type: none"> • The University has a comprehensive IT policy regarding all IT infrastructure, service, security and management. • The computing facilities are centrally managed with various dedicated and high performance servers, so as to meet the growing demands of data processing within the campus. • The University has a large number of licensed software to incorporate the latest tools and technologies. • 256 Mbps dedicated optic fibre leased line and Wi-Fi hotspots enable round the clock internet connectivity on the campus. • The majority of the classrooms of the University are ICT-enabled with various audio visual facilities. <p><u>Physical Infrastructure:</u></p> <ul style="list-style-type: none"> • 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. <p>6.3.6 Human Resource Management:</p>
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	<ul style="list-style-type: none"> • The faculty members are promoted to a higher level 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 programmes, including Induction Training, Orientation Programme, Refresher Courses, etc. • The University has introduced a scheme of headship of departments by rotation to inculcate leadership among the faculty members. • The University has taken various measures for attracting and retaining eminent faculty. <p>6.3.7 Faculty and Staff Recruitment:</p> <ul style="list-style-type: none"> • The faculty and staff recruitment is taken very seriously and thorough planning is done. • The cadre policy, faculty/staff qualifications and the cadre ratio are maintained as per the statutory norms prescribed by the regulatory bodies. • All regular appointments are done on merits by inviting applications through public advertisements in the national level newspapers / advertisement on the university website. • 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. <p>6.3.8 Industry Interaction / Collaboration:</p> <ul style="list-style-type: none"> • The University has an Industry Institute Interaction (III) Cell. The University Head - Corporate Relations is appointed to plan and 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. • 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. • 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. • The University also focuses on collaborating with reputed foreign universities for student and faculty exchange programmes. <p>6.3.9 Admission of Students:</p>
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	<ul style="list-style-type: none"> • 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. • For meticulously conducting the various procedures of admissions, an Admission Committee for each institute is constituted. • Further, wide publicity is ensured by placing advertisements in leading national and regional newspapers. • Brochures of the programmes are prepared that consist of eligibility criteria and the process of admissions. • In general, admissions are done using national level entrance tests. When such tests are unavailable, the University conducts its own entrance tests. • The procedure and criteria for admissions to various programmes are displayed on the website in advance. • The University also has a mechanism to review its admissions process annually. • The constituent institutes of the University participate in Education Fairs overseas and across India to attract meritorious students. • The entire admission process is online. 						
6.4	Welfare Schemes for:						
	<table border="1"> <tr> <td>Teaching</td> <td> <ol style="list-style-type: none"> 1. Reimbursement of expenses towards tuition fees for the employees' dependent children 2. Reimbursement of expenses towards hospitalization 3. Reimbursement of expenses towards purchase of books/ magazine/ subscription of journals / membership etc. 4. Reimbursement of expenses towards LTC 5. Expenses towards recreation activities 6. Expenses towards medical allowances </td> </tr> <tr> <td>Non-Teaching</td> <td> <ol style="list-style-type: none"> 1. Reimbursement of expenses towards tuition fees for the employees' dependent children 2. Reimbursement of expenses towards hospitalization 3. Reimbursement of expenses towards LTC 4. Expenses towards recreation activities 5. Expenses towards medical allowances </td> </tr> <tr> <td>Students</td> <td> <ol style="list-style-type: none"> 1. Scholarship based on Merit 2. Scholarship based on Merit cum Means 3. Interest on Bank Loan 4. Needy Student Fund 5. Book Bank Facility 6. Stipend to the meritorious Masters as well as full-time Ph. D. students </td> </tr> </table>	Teaching	<ol style="list-style-type: none"> 1. Reimbursement of expenses towards tuition fees for the employees' dependent children 2. Reimbursement of expenses towards hospitalization 3. Reimbursement of expenses towards purchase of books/ magazine/ subscription of journals / membership etc. 4. Reimbursement of expenses towards LTC 5. Expenses towards recreation activities 6. Expenses towards medical allowances 	Non-Teaching	<ol style="list-style-type: none"> 1. Reimbursement of expenses towards tuition fees for the employees' dependent children 2. Reimbursement of expenses towards hospitalization 3. Reimbursement of expenses towards LTC 4. Expenses towards recreation activities 5. Expenses towards medical allowances 	Students	<ol style="list-style-type: none"> 1. Scholarship based on Merit 2. Scholarship based on Merit cum Means 3. Interest on Bank Loan 4. Needy Student Fund 5. Book Bank Facility 6. Stipend to the meritorious Masters as well as full-time Ph. D. students
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6.5	Total Corpus Fund Generated:						
	₹ 10 Crores						
6.6	Whether Annual Financial Audit has been done:						

	Yes																			
6.7	<p>Whether Academic and Administrative Audit (AAA) has been done?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Audit Type</th> <th colspan="2">External</th> <th colspan="2">Internal</th> </tr> <tr> <th>Yes/No</th> <th>Agency</th> <th>Yes/No</th> <th>Authority</th> </tr> </thead> <tbody> <tr> <td>Academic</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">IQAC</td> </tr> <tr> <td>Administrative</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">External Auditors</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Internal Auditors</td> </tr> </tbody> </table>	Audit Type	External		Internal		Yes/No	Agency	Yes/No	Authority	Academic	-	-	Yes	IQAC	Administrative	Yes	External Auditors	Yes	Internal Auditors
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	Yes/No	Agency	Yes/No	Authority																
Academic	-	-	Yes	IQAC																
Administrative	Yes	External Auditors	Yes	Internal Auditors																
6.8	<p>Does the University/ Autonomous College declares results within 30 days?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>For UG Programmes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td>For PG Programmes</td> <td style="text-align: center;">Yes</td> </tr> </table>	For UG Programmes	Yes	For PG Programmes	Yes															
For UG Programmes	Yes																			
For PG Programmes	Yes																			
6.9	<p>What efforts are made by the University/ Autonomous College for Examination Reforms?</p> <ul style="list-style-type: none"> • 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. • 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. 																			
6.10	<p>What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?</p> <ul style="list-style-type: none"> • 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. • 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. 																			
6.11	<p>Activities and Support from the Alumni Association:</p> <p>Alumni Associations are actively involved in various activities at the</p>																			

	<p>University, some of them are listed below:</p> <ul style="list-style-type: none"> • Career guidance to the students of current batch. • Help in sensitizing the students to industry needs and summer / final placements. • Alumni members provide feedback on syllabus updating. • Representatives of the Institute of Management alumni participate in selection of the students for admission in the MBA programme. • Representatives of Alumni Associations participate as members of IQAC. • Alumni Association of the Institute of Technology publishes a magazine SETU every year. • Financial assistance for students' participation in national/state level paper presentation is provided by the Pharmacy Alumni Association. • Scholarships are given by the Institute of Technology Alumni Association. • Felicitation of toppers by the Institute of Pharmacy Alumni Association. <p>Note: Apart from the institute wise Alumni Associations, the University has 'Nirma University Alumni Forum' which hold two meetings during April 01, 2015 to June 30, 2016.</p>
6.12	<p>Activities and Support from the Parent – Teacher Association:</p> <ul style="list-style-type: none"> • 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 while making plans and strategies.
6.13	<p>Development Programmes for Support Staff:</p> <p>The support staff is provided in-house training and are also sent to participate in training programmes organized by external agencies. Details of some of the training programmes organized by the University during the assessment period are listed below:</p> <ul style="list-style-type: none"> • Training programme for the Laboratory Assistants, Computer Operators and Computer Programmers during December 28-30, 2016. • Intensive training programme of sixty hours for the Assistant Registrar/Office Superintendent and equivalent. • Training programme for the Office Assistants and staff of equivalent cadre during June 13-18, 2016.
6.14	<p>Initiatives taken by the University to make the Campus Eco-Friendly:</p> <p>The University has taken various measures for water harvesting, electrical energy conservation and waste management and thus to make the campus Eco-friendly. Some of the initiatives undertaken comprise:</p> <ul style="list-style-type: none"> • 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. • Also a sewage treatment plant is going to be erected in the campus

		<p>having a capacity of four lacs litres per day. After completion of the plant, the treated water will be used in the gardens throughout the campus.</p> <ul style="list-style-type: none"> • In the University campus, there is a lake, spread over approximate 8000 sq.mt. area and having an average depth of 25 feet. The rain water collected from campus is stored in this lake which percolates slowly through land. • There are five percolation wells constructed in campus to percolate collected water from campus. • Electrical energy conservation is being carried out through various measures. • 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. • Planting variety of trees and plants in various gardens has contributed to carbon neutrality in the campus.
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CRITERION – VII

7.	Innovations and Best Practices:	
	7.1	<p>Innovations introduced during this academic year which have created a positive impact on the functioning of the institution:</p> <ul style="list-style-type: none"> • Academic Audit of all the constituent institutes. • Rules for Preventing Plagiarism. • Training programmes for the staff (Laboratory Assistants, Computer Operators, Office Superintendents, Office Assistants, etc.). • Funding up to ₹ 30 Lakhs to the faculty members for major research projects by the University. • Awards & Incentive schemes for the faculty members.
	7.2	<p>Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year:</p> <ul style="list-style-type: none"> • The University underwent the 2nd cycle of the NAAC accreditation and obtained 'A' grade with CGPA 3.18. • Implemented University Level Academic Audit of all the constituent institutes. • Implemented the scheme of Awards and Incentives for the faculty members. • Implemented the scheme of funding to the faculty members for Major Research Projects. • Signed MoU with Space Applications Centre, ISRO, Ahmedabad and initiated collaborative research activities. • Organized four-week Induction Training, two-week Research Orientation and two-week Orientation Programme for the faculty members of the constituent institutes.

	<ul style="list-style-type: none"> Organized training programme for the Laboratory Assistants and Computer Operators and a training programme for the Office Superintendents, Assistant Registrars, Office Assistants, etc. Prepared systematic rules to prevent plagiarism.
7.3	<p>Give two Best Practices of the University: (please see the format in the NAAC Self-study Manuals)</p> <p>For details, please refer to Annexure-7.</p>
7.4	<p>Contribution to Environmental Awareness / Protection:</p> <ul style="list-style-type: none"> 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"> a) Environment related courses in the curriculum, b) Seminar, Workshops, and Awareness Programmes c) Participation in plantation of plants both normal and medicinal, etc. In addition to the above, the Institute of Law has established a research centre in the area of 'Environment Law'.
7.5	<p>Whether environmental audit was conducted?</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. The green coverage of the entire University campus is around 32%.</p>
7.6	<p>Any other relevant information the institution wishes to add:</p> <p>Three constituent institutes of the University participated NIRF ranking introduced by the MHRD and obtained commendable rankings at national level.</p> <ul style="list-style-type: none"> Institute of Pharmacy 5th Rank. Institute of Management 29th Rank. Institute of Technology 45th Rank.

8.	<p>Plans of the University for Next Year:</p> <ul style="list-style-type: none"> To comply with the requirements with regards to the observations made in NAAC report. To prepare ten-year Perspective Plan. To strengthen the research wing of the University. To further strengthen the implementation of different policies already evolved.
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	<ul style="list-style-type: none">• To promote the use of ICT in teaching-learning, research and administration.• To implement the scheme of providing grant to the faculty members for publishing different literature.• To implement the scheme of Awards and Incentives for the staff members.• To finalize the Core Value Framework of the University.• To prepare a Charter on Critical Services to be offered to the existing students and the alumni.• To strengthen the Academic Audit by involving outside experts.

Dr. Dhaval Pujara
Name & Signature of IQAC Coordinator

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

LIST OF ANNEXURE

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ANNEXURE 1

Workshops / Seminars Organized by the IQAC

Sr. No.	Title / Theme of the Programme	Programme Level (International / National / State / In-house)	Dates of Programme	Programme Duration (in hrs)	Number of Participants
1.	Research Orientation Programmes	In-house	22/06/2015 – 04/07/2015	68	29
2.	Faculty Orientation Programme	In-house	22/06/2015 – 04/07/2015	68	29
3.	Faculty Induction Training Programme	In-house	01/06/2015 – 27/06/2015	140	32
4.	Workshop on ‘Outcome Based Education – Experience Sharing’	In-house	12/09/2016	04	32
5.	Workshop on ‘Educational Technology’ by Dr. Teri Balser	In-house	10/12/2015 – 11/12/2015	06	36
6.	Faculty Orientation Programme	In-house	21/12/2015 – 02/01/2016	68	27
7.	Training Programmes for Laboratory Assistants	In-house	28/12/2015 – 30/12/2015	16	25
8.	Training Programmes for Computer Operators and Computer Programmers	In-house	28/12/2015 – 30/12/2015	16	17
9.	Training Programme for the Assistant Registrars/Office Superintendents and Equivalent	In-house	08/01/2016 – 13/02/2016	60	35
10.	Workshop on, ‘M G Taylor Model for Group Collaboration to Create Group Genius’	In-house	08/02/2016	02	30
11.	Workshop on ‘Blended Course Design & Models for Collaborative Learning’	In-house	23/02/2016	04	30
12.	Workshop on Outcome Based Education	National	08/04/2016 – 09/04/2016	12	45
13.	VLSI and Embedded System Design	National	20/06/2016 - 02/07/2016	72	21
14.	Current Practices in Mechanical Design	National	20/06/2016 - 02/07/2016	68	16
15.	Challenges and Innovative Solutions in	National	20/06/2016 - 02/07/2016	68	21

	Electrical Power System				
16.	Process Measurements: Theory, Advances and Applications	State	14/12/2015 - 26/12/2015	68	14
17.	Recent Trends in Communication Systems	National	14/12/2015 - 26/12/2015	72	23
18.	Applications of Modern Power Electronics in Industries and Utilities	National	15/06/2015 - 27/06/2015	68	19
19.	Recent Trends in Mechanical Engineering	In house	15/06/2015 - 27/06/2015	68	18
20.	Refresher Course for Faculty in Management Education	In-house	18/04/2015 - 2/05/ 2015	60	34
21.	Case Method and Case Writing	In-house	16/04/2016 -30/04/ 2016	60	36
22.	Statistical Analysis Workshop	In-house	27/11/2015 -28/11/2015	12	31
23.	Consultancy Competency Workshop	In-house	23/03/2016	03	25
24.	Communication for Management Teachers Workshop	In-house	6/04/2016	06	26
25.	Faculty Development Programme on Econometrics	National	21/04/2016 -23/04/ 2016	18	7

ANNEXURE 2

Analysis of Feedback received from Various Stakeholders

A. Brief Report on Feedback obtained from Alumni

- In general, the feedback of the alumni about the University Infrastructure, Library, Computer Centre, Canteen, Student Section, Transpiration facilities is satisfactory.
- Additional training programme on Soft Skill Development should be arranged for the all-round development of the students.
- In case of B.Tech. programme, the students should be offered industry-based projects for more practical exposure.
- For MBA students, rural projects may be increased.
- Alumni from Institute of Management suggested adding courses relevant to the industry demands and trends. It was also emphasized on including more interactive cases with industry related problems. Inclusion of new course, like Digital Marketing, Sports Marketing, Operations in Technology Services, etc.
- Alumni from Institute of Law suggested to include current issues like, GST in Taxation of Semester VII.

B. Brief Report on Feedback obtained from Parents

- In general, the parents have given excellent rating for the course curricula, teaching-learning process, student support mechanism, infrastructure, etc. They also appreciated the efforts; the University is putting in for the overall development of the students.
- The parents suggested to give more emphasis on project based learning / experiential learning.
- The parents suggested the institutes to focus more on student placements in core industries /companies.

C. Brief Report on Feedback obtained from Employers

- Overall, the employers/ recruiters have very positive impression about the quality of the students. According to the employers, the students of Nirma University are much disciplined, well-mannered, polite and technically sound. They are very much satisfied about the syllabus of various courses.
- The faculty members should emphasize more on problem solving ability of the students.
- Courses / topics on Product Planning, Industrial Safety, Factory Rules and Acts, etc. may be included in engineering programmes.
- Recruiters of management graduates (MBA) stressed on developing analytical skills and to have more orientation on data analysis, supply chain, Excel skills, and general awareness.
- A few recruiters suggested conducting Mock Interview Sessions on regular basis by the experts from professional field.

D. Brief Report on Feedback obtained from Students -Passing Out Batch

- Majority of the students are satisfied with the infrastructure, laboratories, library and computer facilities, available learning resources, gym and sports facilities, counselling mechanism, etc.

- In case of Institute of Technology, the UG students should be offered projects from industry, where they can get more practical exposure.
- The students of Institute of Law suggested to introduce contemporary topics in electives and including a course on International Criminal Law in Criminal Law Honors Programme.

ANNEXURE 3

Salient Features of Syllabi Updation

Name of the Institute	Syllabi Updation
Institute of Technology	<p><u>B.Tech:</u></p> <ul style="list-style-type: none"> • Introduction of syllabus of two courses of Sem. – V of all B.Tech. Programmes • Revision of syllabus of course “Economics for Engineers” of Sem. –III / IV of B.Tech. Programmes • Introduction of Course Learning outcomes of two courses of B.Tech. – First Year programmes • Revision of Teaching and Examination Scheme and Introduction of Syllabus of Sem.-V & VI of B.Tech. programmes • Introduction of Institute Elective courses in Sem. – VI or VII along with its syllabus in B.Tech. programmes • Revision of Teaching and Examination Scheme of Sem. V to VII of B.Tech. in CE / IT Engg. due to change of nomenclature of some courses and deletion of some courses • Revision of Course Structure of Semester VI to VII of B.Tech. in Chemical Engg., due to deletion of elective courses CH723-Solid Waste Treatment Techniques and CH743-Environment Management from the list of Elective – III of Sem. – VII and regrouping of elective courses (i) Air Pollution Control Engineering (Elective- III to Elective – II) (ii) Applied Chemical Process Thermodynamics (Elective-IV to Elective – III) • Revision of CLO for the course “CH302-Heat Transfer Operations” of Sem. – III of B.Tech. in Chemical Engg. Programme • Modification in the content of the Syllabus of a course “Mass Transfer Operations-I” of Sem. – IV of B.Tech. in Chemical Engg. by deleting the tutorial component, as it is not a part of Teaching and Examination Scheme • Revision in the existing pattern of offering department elective in Civil Engg. of B.Tech. programme i.e. all the department elective courses falling under group of elective I & II of Sem. – VI and elective III & IV for

	<p>Sem. – VII will now be taken together and offered to the students of Sem. – VI & VII for opting any course from the entire pool of electives</p> <ul style="list-style-type: none"> • Introduction of courses as University Elective by the various departments under Faculty of Technology & Engineering for the students of all the UG programmes run under different faculties other than Faculty of Technology and Engineering • Introduction of policy for Minor Specialization to be offered as Minor Specialization for various B.Tech. Programmes along with Teaching and Examination Scheme and Syllabus, to be made applicable to the students registered in Sem. – V from the Academic Year – 2015-16 and onwards • Introduction of Minor Specializations in Marketing & Finance area for the students of various B.Tech. Programmes to be made applicable for the students admitted in the Academic Year - 2013-14 and onwards under Faculty of Technology & Engineering • Revision of syllabus of a course ‘PY101-Physics’ of Semester–I/II of all B.Tech. programmes, to be made effective from the Academic Year 2016-17 and onwards • Revision of syllabus of department elective course ‘Introduction to Aircraft Systems’ of Semester–V of B.Tech. in Mechanical Engg. Programme, to be made effective from the Academic Year 2016-17 and onwards • Introduction of syllabus of ‘Organisational Behaviour’ in Semester–VII for all B.Tech. Programmes, to be made effective for the students admitted to B.Tech. in the Academic Year 2013-14 and onwards and also for the students of B.Tech. (Diploma to Degree) admitted in the Academic Year 2014-15 and onwards • Introduction of Course Learning Outcome in the syllabus of Institute Electives, to be offered in Semester – VI/VII to all B.Tech. programmes, for the students admitted in the Academic Year 2013-14 and onwards and also for the students of B.Tech. (Diploma to Degree) admitted in the Academic Year 2014-15 and onwards • Revision of Teaching & Examination Scheme and introduction of Syllabus of Semester–VII & VIII of B.Tech in EC Engineering Programme, to be made effective from the Academic Year 2016-17 for the students admitted in year 2013-14 and B.Tech. in EC Engineering (Diploma to Degree) admitted in the Academic Year 2014-15 and onwards • Addition of Institute Electives along with Syllabus for the students of Semester–VI/VII of B.Tech. Programmes other than the students of B.Tech. in EC Engineering programme • Revision of Teaching & Examination Scheme and introduction of Syllabus of Semester–VII & VIII of B.Tech. in IC Engineering Programme, to be made effective from the Academic Year 2016-17 for the
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students admitted in Academic Year 2013-14 and B.Tech. in IC Engineering (Diploma to Degree) admitted in the Academic Year 2014-15 and onwards

- Revision of Teaching & Examination Scheme and introduction of Syllabus of Sem.–VII & VIII of B.Tech. in Electrical Engineering Programme, to be made effective from the Academic Year 2016-17 for the students admitted in Academic Year 2013-14 and B.Tech. in Electrical Engineering (Diploma to Degree) admitted in the Academic Year 2014-15 and onwards
- Revision of Teaching & Examination Scheme and introduction of Syllabus of Sem.–VII & VIII of B.Tech. in Chemical Engineering Programme, to be made effective from the Academic Year 2016-17 and onwards
- Revision of Teaching & Examination Scheme of Semester–VII of B.Tech. in Computer Engineering programme to be made effective from the Academic Year 2016-17 and onwards
- Revision of Teaching & Examination Scheme of Semester – VII of B.Tech. in Information Technology Programme
- Introduction of Syllabus of Semester–VII & VIII of B.Tech. in Computer Engineering and B.Tech. in Information Technology programme, to be made effective from the Academic Year 2016-17 and onwards for the students admitted in the Academic Year 2013-14 and onwards
- Revision of Teaching & Examination Scheme of pre-requisite courses by replacing the existing courses ‘Programming Language’ and ‘Computer Programming’ to ‘*Essentials of Programming*’ along with its syllabus for all the branches of B.Tech. programme, to be made effective for the students admitted under Diploma to Degree from the Academic Year 2016-17 and onwards
- Revision of Teaching & Examination Scheme of Semester–VII and introduction of Syllabus of Semester–VII & VIII of B.Tech. in Civil Engineering Programme, to be made effective from the Academic Year 2016-17 for the students admitted in year 2013-14 and onwards
- Revision of Teaching & Examination Scheme and introduction of Syllabus of Semester – VII & VIII of B.Tech. in Mechanical Engineering Programme, to be made effective from the Academic Year 2016-17 and onwards

MCA:

- Introduction of syllabus (1) Corporate Communication and (2) Organizational Behavior of Sem. – V of MCA programme, to be made effective from the Academic Year – 2015-16 and onwards for the students to be registered in Sem. – V of MCA programme
- Revision of Teaching and Examination Scheme of Sem. –V of MCA programme due to change in teaching scheme of a course “3CA1554 – Corporate Communication” and introduction of syllabus of courses of

	<p>Sem. – V & VI of MCA programme</p> <p><u>M.Tech.</u></p> <ul style="list-style-type: none"> • Modification of Course learning outcome of two courses of Sem.-I of M.Tech. in Electrical Engg. programme • Revision of syllabus of following elective courses of Semester – II of M.Tech. programme in Computer Science and Engineering (CSE), Computer Science & Engineering (Networking Technologies) and Computer Science and Engineering (Information Network & Security), to be made effective from the Academic Year 2015 - 16 and onwards • Addition of one new elective course “Design of Solar Thermal Energy Systems” along with syllabus in the pool of electives offered to M.Tech. programme in Mechanical Engg.to be made effective from Semester – II of Academic Year 2015-16 and onwards • Revision of Course Learning Outcome of courses of all B.Tech. programmes
<p>Institute of Management</p>	<p><u>BBA-MBA:</u></p> <ul style="list-style-type: none"> • Revision of course structure and syllabi of some courses of BBA-MBA programme, due to offering University Elective course • Introduction of following courses as University Elective for the students admitted in the Academic Year – 2013-14 and onwards in UG programmes of Faculty other than Faculty of Management • list of Enrichment Courses for BBA-MBA programme, to be made effective from the Academic Year – 2016-17 and onwards • Revision of course structure and syllabi of core courses of BBA-MBA programme, due to offering of university elective, to be made applicable from Academic Year 2015-16 and onwards • Introduction of syllabus of enrichment courses offered to the students admitted in the BBA-MBA programme • Revision of syllabus of ‘Company Accounts’ of Semester–II and ‘Cost and Management Accounting’ of Semester-III of B.B.A-M.B.A (Five Year Integrated Programme), to be made effective from the Academic Year 2016-17 and onwards

- Revision of syllabus of 'Elements of Management' in Semester-I of B.B.A-M.B.A (Five Year Integrated Programme), to be made effective from the Academic Year 2016-17 and onwards
- Introduction of Teaching and Examination Scheme and Syllabus of 4th and 5th Year of B.B.A-M.B.A. (Five Year Integrated programme), in supersession of earlier approved Teaching and Examination Scheme of corresponding period, to be made effective from the Academic Year 2016-17 and onwards with a suggestion that, a sector specialization on managing small and Medium Size Enterprises (MSE) and entrepreneurship shall also be included
- Revision of Teaching & Examination Scheme of Semester-III of B.B.A-M.B.A (Five Year Integrated Programme) due to replacing the course "Introduction to Industrial Psychology" with "Managerial Skills" along with its Syllabus, to be made effective from the Academic Year 2016-17 and onwards

MBA:

- Revision in the course structure of the MBA (Full Time) programme along with revision of syllabi of 17 core courses and introduction of 17 elective courses
- Revision of syllabi of 17 core courses of 1st year (Term – I to III) of MBA (Full-Time) programme, to be made applicable from Academic Year 2015-16 and onwards
- Revamping of syllabi of core courses of 1st year (Term –I & II) of MBA (FB&E) programme due to restructuring of course scheme, to be made applicable from Academic Year 2015-16 and onwards
- Introduction of new electives along with syllabus for Term – 3 of 1st year MBA – (Full Time) programme offered by Marketing area, to be made effective from the Academic Year 2015-16 and onwards
- Introduction of new electives along with syllabus for Term – 3 of 1st year MBA – (Full Time) programme offered by Strategic Management & Entrepreneurship (SM&E) area, to be made effective from the Academic Year 2015-16 and onwards
- Introduction of new electives along with syllabus for Term – 3 of 1st year MBA – (Full Time) programme offered by Information Management area, to be made effective from the Academic Year 2015-16 and onwards
- Introduction of new electives along with syllabus for Term – 3 of 1st year MBA – (Full Time) programme offered by General Management area, to be made effective from the Academic Year 2015-16 and onwards
- Introduction of new electives along with syllabus for Term – 3 of 1st year MBA – (Full Time) programme offered by Economics & Finance area, to be made effective from the Academic Year 2015-16 and onwards

	<ul style="list-style-type: none"> • Introduction of syllabus of courses for Term – 3 of 1st year MBA (Family Business & Entrepreneurship) programme offered by SM&E and General Management area, to be made effective from the Academic Year – 2015-16 and onwards • Revision of syllabus of course for Term – 3 of 1st year MBA (Family Business & Entrepreneurship) programme, to be made effective from the Academic Year 2015-16 and onwards. • Revision of syllabus of ‘Financial Statements Analysis’ of Term-IV of M.B.A programme, to be made effective from the Academic Year 2016-17 and onwards • Increase in credit hours of Elective course ‘Lean Six Sigma’ from existing 1.5 Credit to 3 Credit Hours to be offered in 2nd year M.B.A programme, to be made effective from the Academic Year 2016-17 and onwards
Institute of Pharmacy	<p><u>B.Pharm:</u></p> <ul style="list-style-type: none"> • Revision of Teaching and Examination Scheme of B.Pharm. programme due to Introduction of Institute Electives plus University Electives along with the Syllabus of Institute Electives for Sem. – VI of B.Pharm. programme • Offering of following courses as University Electives by the various departments under Faculty of Pharmacy for the students of all the UG programmes run under different faculties other than Faculty of Pharmacy along with its syllabus • Revision of syllabus of (1) Fundamentals of Computer Applications in Pharmacy for Semester - I of B.Pharm. programme and, (2) Fundamentals of Biostatistics for Semester - VIII of B.Pharm. programme • Revision of Teaching & Examination Scheme of Semester – I to VIII and Syllabus of Semester – I & II of B.Pharm. Programme, to be made effective for the students to be admitted in the Academic Year 2016-17 and onwards <p><u>M.Pharm:</u></p> <ul style="list-style-type: none"> • Modification in Course learning outcome of a course “Global Regulatory Affairs” of Sem. - II of M.Pharm. [Regulatory Affairs & Quality Assurance] programme • Revision of the syllabus of “Quality by Design for Pharmaceuticals” of Semester -II of M.Pharm.

	<p>Programmes and “Pharmaceutical Jurisprudence & Regulatory Guidelines” of Semester-VI of B.Pharm. programme, as per the suggestions received from stakeholders</p> <ul style="list-style-type: none"> • Approval of following Thrust Areas for Research in various departments under the Institute of Pharmacy
Institute of Science	<p><u>M.Sc:</u></p> <ul style="list-style-type: none"> • Modification in Course learning outcome of an elective course “Cancer Biology” in the Semester - III of M.Sc. (Biotechnology, Biochemistry, Microbiology) Programme • Revision in the existing pattern of offering more electives within the available discipline existing under Faculty of Science and the list of electives to be offered for each discipline from Academic Year 2015-16 and onwards as incorporated in the Teaching and Examination Scheme of M.Sc. (Biotechnology, Biochemistry, Microbiology) programmes • Introduction of Teaching & Examination scheme and Syllabus of Semester - III and IV of M.Sc. in Cosmetic Technology, to be made effective from the Academic Year 2015-16 and onwards. • Revision of Teaching and Examination scheme of Interdisciplinary PG Programme of M.Sc. in Cosmetic Technology of Semester – II with regard to change in LPW component in a course “Quality Assurance in Cosmetic Technology”, to be made effective from the Academic Year 2015-16 and onwards • Revision of Teaching & Examination Scheme of Semester–I to IV of M.Sc. Programmes in Biotechnology, Biochemistry & Microbiology, to be made effective from the Academic Year 2016-17 and onwards • Revision of syllabus of all courses of Semester - I to IV of M.Sc. programmes in Biotechnology/ Biochemistry/ Microbiology due to (i) introduction of Course Learning Outcomes in all courses, (ii) change in nomenclature of courses at serial No. 1 to 3 as under, and (iii) revision in the content of syllabus of following listed eight courses of Semester-III, to be made effective from Academic Year 2016-17 and onwards • Revision of Teaching & Examination Scheme of Semester – I to IV and Syllabus of courses of Semester – I & II of M.Sc. in Cosmetic Technology programme, to be made effective from the Academic Year 2016-17 and onwards.
Institute of Law	<p><u>LLB:</u></p>

- Modification in Course Learning Outcome of the course “Intellectual Property Law” of Sem. VI of B.A.,LL.B. (Hons.), B.COM., LL.B. (Hons.) and B.B.A., LL.B. (Hons.) Programmes.
- Introduction of Teaching and Examination Scheme and syllabus of courses (i) Economic Development and Policy (ii) Justice: An Introduction (iii) Financial Accounting (iv) Human Resource Management and revision of the syllabus of Contract I of Semester - III of B.A.LL.B.(Hons.) and B.Com, LL.B.(Hons.) programmes
- Introduction of the syllabus and Teaching & Examination scheme of (i) Civil procedure Code and Limitation Act, (ii) Family Law I, (iii) Corporate Law I, (iv) Contract II and (v) Law of Evidence of Sem – V of B.A.,LL.B.(Hons.), B.com.,LL.B.(Hons.) and B.B.A.,LL.B.(Hons.) programmes
- Revision of Teaching and Examination scheme of Semester - VII and syllabus of courses (1) Mergers and Acquisitions and (2) Corporate Governance (Corporate Honours) of Semester VII B.A.,LL.B.(Hons.), B.com.,LL.B.(Hons.) and, B.B.A.,LL.B.(Hons.) programmes
- Revision of syllabus of course (i) Financial Market Regulations (Corporate Honours) and (ii) Patent Laws in Pharmaceutical Industry (Intellectual Property Rights Honours) of B.A.LL.B.(Hons.), B.Com.,LL.B.(Hons.) programmes, to be made effective for the students registered in Semester - IX from the academic year 2015-16 and onwards
- Modification in Course Learning Outcome of the course "Intellectual Property Law" of Sem VI of B.A.,LL.B. (Hons.), B.COM., LL.B. (Hons.) and B.B.A., LL.B. (Hons.) Programmes
- Introduction of Teaching and Examination Scheme and syllabus of courses (i) Economic Development and Policy (ii) Conception of Justice in Eastern and Western Thought (iii) Financial Accounting (iv) Human Resource Management and revision of the syllabus of Contract I of Semester - III of B.A.LL.B.(Hons.) and B.Com, LL.B.(Hons.) programmes, to be made effective for the students registered in Sem-III from the academic year 2015-16 and onwards
- Introduction of the syllabus and Teaching & Examination scheme of (i) Civil procedure Code and Limitation Act, (ii) Family Law I, (iii) Corporate Law I, (iv) Contract II and (v) Law of Evidence of Sem – V of B.A.,LL.B.(Hons.), B.Com.,LL.B.(Hons.) and B.B.A.,LL.B.(Hons.) programmes, to be made effective for the students to be registered in Sem. - V from the A.Y. -2015-16 and onwards
- Revision of Teaching and Examination scheme of Semester - VII and syllabus of courses (1) Mergers and Acquisitions and (2) Corporate Governance (Corporate Honours) of Semester VII B.A.,LL.B.(Hons.), B.com.,LL.B.(Hons.) and, B.B.A.,LL.B.(Hons.) programmes, to be made effective for the students registered in Semester - VII from the academic year 2015-16 and onwards

- Modification in credit from 4 to 5 of course Criminal Law-I “General principles of criminal law and Introduction to Criminal Justice Administration” of Semester – III due to change in Teaching and Examination scheme of Semester-III of B.A. LL.B (Hons.) and B.Com.LL.B.(Hons.) programme with effect from the Academic year 2015-16 and onwards
- Modification in Course Learning Outcome of the course “Intellectual Property Law” of Sem. VI of B.A.,LL.B. (Hons.), B.COM., LL.B. (Hons.) and B.B.A., LL.B. (Hons.) Programmes
- Introduction of Teaching and Examination Scheme and syllabus of courses (i) Economic Development and Policy (ii) Conception of Justice in Eastern and Western Thought (iii) Financial Accounting (iv) Human Resource Management and revision of the syllabus of Contract I of Semester - III of B.A.LL.B.(Hons.) and B.Com, LL.B.(Hons.) programmes, to be made effective for the students registered in Sem-III from the academic year 2015-16 and onwards
- Introduction of the syllabus and Teaching & Examination scheme of (i) Civil procedure Code and Limitation Act, (ii) Family Law I, (iii) Corporate Law I, (iv) Contract II and (v) Law of Evidence of Sem. – V of B.A.,LL.B.(Hons.), B.com.,LL.B.(Hons.) and B.B.A.,LL.B.(Hons.) programmes, to be made effective for the students to be registered in Sem. - V from the A.Y. -2015-16 and onwards
- Revision of Teaching and Examination scheme of Semester - VII and syllabus of courses (1) Mergers and Acquisitions and (2) Corporate Governance (Corporate Honours) of Semester VII B.A.,LL.B.(Hons.), B.com.,LL.B.(Hons.) and, B.B.A.,LL.B.(Hons.) programmes, to be made effective for the students registered in Semester - VII from the academic year 2015-16 and onwards
- Introduction of Teaching & Examination scheme and syllabus of courses of Trimester – III of LL.M. (Criminal and Security Law) programme, guideline for Seminar writing & presentation, and, revision of Teaching & Examination scheme of Trimester-III of one year LL.M. programmes, to be made effective for the students registered in Trimester – III from the academic year 2014-15 and onwards
- Modification in credit from 4 to 5 of course Criminal Law-I “General principles of criminal law and Introduction to Criminal Justice Administration” of Semester – III due to change in Teaching and Examination scheme of Semester-III of B.A. LL.B (Hons.) and B.Com.LL.B.(Hons.) programme with effect from the Academic year 2015-16 and onwards.
- Revision of Teaching and Examination Scheme and introduction of syllabus of Constitutional Law II of Semester-IV of B.A., LL.B.(Hons.) and B.Com., LL.B. (Hons.) Programmes, to be made effective for the students registered from the Academic Year 2015-16 and onwards.
- Revision of Teaching and Examination Scheme of Semester – VI of B.A., LL.B.(Hons.), B.Com., LL.B. (Hons.) and B.B.A. LL.B. (Hons.) programmes of Law, to be made effective for the students registered in

Semester - VI from the Academic Year 2015-16 and onwards.

- Introduction of syllabus of following courses of Semester VI of B.A., LL.B. (Hons.), B.Com., LL.B. (Hons.) and B.B.A. LL.B. (Hons.) Programmes of Law, to be made effective for the students registered in Semester - VI from the Academic Year 2015-16 and onwards.
- Revision of Teaching & Examination Scheme and syllabus of Comparative Criminal Procedure of Semester – VIII of B.A., LL.B.(Hons.), B.Com., LL.B. (Hons.) and B.B.A. LL.B. (Hons.) programmes, to be made effective for the students registered in Semester - VIII from the Academic Year 2015-16 and onwards.
- Revision of syllabus of courses of Semester – VIII of B.A.,LL.B.(Hons.), B.Com., LL.B. (Hons.) and B.B.A., LL.B. (Hons.) Programmes, to be made effective for the students registered in Semester - VIII from the Academic Year 2015-16 and onwards.
- Introduction of syllabus of a course “Statutory Interpretation and Legislative Drafting” of Semester – VIII of B.A.,LL.B.(Hons.), B.Com.,LL.B. (Hons.) and B.B.A., LL.B. (Hons.) Programmes, to be made effective for the students registered in Semester - VIII from the Academic Year 2015-16 and onwards.
- Revision of Teaching and Examination Scheme of Semester – X of B.A LL.B (Hons.) & B.Com LL.B (Hons.) programmes due to following changes, to be made effective for the students registered in Semester-X from the Academic Year 2015-16 and onwards, Introduction of course “The new Subalterns in Contemporary India: Exclusion, Elision and Resistance” in Elective – I, and Revision of syllabus of Women and Law due to change in nomenclature to Gender and Law.
- Revision of syllabus of International Trade Law, Law of Carriage, and Law of Trade Secrets, Anti-Competitive Practices and Transfer of Technology, to be made effective for the students registered in Semester-X of UG programmes in Law from the Academic Year 2015-16 and onwards.
- Introduction of Syllabus of Law and Governance in Tribal Area and Law related to Prevention and Punishment for Corruption, as an Elective Course in the pool of Optional Courses (Elective Courses) of Semester X of B.A.,LL.B.(Hons.) and B.Com.,LL.B. (Hons.) programmes, to be made effective for the students registered in Semester-X from the Academic Year 2015-16 and onwards.
- Introduction of syllabus of courses, to be made effective for the students registered in Semester - IV of B.A.,LL.B.(Hons.) programme, from the Academic Year 2015-16 and onwards
- Introduction of Syllabus of courses, to be made effective for the students registered in Semester - IV of B.Com.,LL.B. (Hons.) Programmes from the Academic Year 2015-16 and onwards.
- Revision of syllabus of ‘Law and Literature’ of Semester–I of B.A LL.B (Hons.) (Five Year Integrated

Programme) and B.Com LL.B (Hons.) (Five Year Integrated Programme), to be made effective for the students to be admitted from Academic Year 2016-17 and onwards

- Revision of syllabus of ‘Economic Development and Policy’ of Semester–III of B.A LL.B (Hons.) (Five Year Integrated Programme), to be made effective for the students to be registered from Academic Year 2016-17 and onwards
- Revision of Teaching and Examination Scheme and introduction of Syllabus of courses of Semester-VII of B.A LL.B.(Hons.), B.Com LL.B. (Hons.) and B.B.A LL.B (Hons.) Programmes, to be made effective from the Academic Year 2016-17 and onwards
- Amendments in B.A LL.B.(Hons.) and B.Com LL.B. (Hons.) programmes from the Academic Year 2016-17 and onwards.

LLM:

- Notified guidelines for LL.M. Dissertation of the Trimester - III of Legal pedagogy and Research programme be applicable *mutatis mutandis* to all the LL.M. programmes, for the students registered in Trimester -III from the academic year 2015-16 and onwards
- Introduction of Teaching & Examination scheme and syllabus of courses of Trimester – III of LL.M. (Criminal and Security Law) programme, guideline for Seminar writing & presentation, and, revision of Teaching & Examination scheme of Trimester-III of one year LL.M. programmes, to be made effective for the students registered in Trimester – III from the academic year 2014-15 and onwards
- Introduction of Teaching & Examination scheme and Syllabus of courses of Trimester - III of following one year LL.M. programmes
- Revision of Teaching and Examination Scheme of all specialization of LL.M. programmes and applicability of syllabus of a course “Comparative Law (Constitutional Governance in Federal Countries: Select Institutions)” in place of courses of Trimester – I for having uniformity for all specialization of Trimester – I of all LL.M. Programmes, to be made effective for the students admitted in Trimester-I from the Academic Year 2015-16 and onwards.
- Increase in credit hours of Elective course ‘Lean Six Sigma’ from existing 1.5 Credit to 3 Credit Hours to be offered in 2nd year M.B.A programme, to be made effective from the Academic Year 2016-17 and onwards
- Introduction of syllabus of ‘Sales & Distribution Management’ by merging the syllabus of ‘MM617-Sales

	<p>Management’ and ‘MM618-Marketing Channel Management’ of 2nd Year of M.B.A programme, to be made effective from the Academic Year 2016-17 and onwards</p> <ul style="list-style-type: none"> • Increase credit hours of course ‘MM621-Strategic Brand Management’ of 2nd year M.B.A programme along with syllabus from existing 1.5 credits hours to <i>3.0 credit hours</i>, to be made effective from the Academic Year 2016-17 and onwards • Swapping of course ‘GM501-Research Methodology’ of Term-I with ‘GM502-Business Ethics’ of Term–III of M.B.A. programme, to be made effective from the Academic Year 2016-17 and onwards • Revision of Examination Scheme of General Elective ‘Presentation Skills’ offered to M.B.A programme, to be made effective from the Academic Year 2016-17 and onwards • Amendment in nomenclature appears in Regulation no. R.MBAFT-1.2 under component of weightage criteria ‘Communication Test’ for admission to M.B.A. programme by substituting the words ‘Theme Development & Presentation’.
Institute of Architecture	<ul style="list-style-type: none"> • Introduction of Teaching & Examination Scheme and Syllabus of Semester – V & VI of B.Arch. programme, to be made effective from the Academic Year 2016-17 and onwards with a modification that the Supplementary Courses mentioned at the end of each Semester be removed. • Introduction of Teaching & Examination Scheme and Syllabus based on the Choice Based Credit System (CBCS) for the B.Arch. programme, to be made effective from the Academic Year 2016-17 and onwards with a modification that name of Electives should be mentioned in Teaching & Examination Scheme of each Semester and University Elective-I should be offered in Semester – III instead of Semester – V. • Change of nomenclature of Related Study Programme of Semester–III & IV of B.Arch. programme. • Introduction of Teaching & Examination Scheme of Semester–I to VIII along with syllabus of Semester–I & II of proposed Bachelor of Planning (B.Plan.) programme to be made effective from the Academic Year 2016-17 and onwards.

ANNEXURE 4

Innovative Processes adopted by the Institution in Teaching and Learning

Name of the Institute	Innovative Practices
Institute of Technology	<ul style="list-style-type: none"> • Practical demonstration of complex theoretical concepts • Use of blog for each course to ensure 24X7 learning • Use of online discussion forum, like Piazza, Google Classroom, etc. • Use of Spoken Tutorials, Virtual Labs, NPTEL Videos, etc. • Teaching-learning based on case studies, group discussion, presentations, etc. • Project based Learning • Regular site visits / industrial visits • Promoting open source software/tools • Use of active learning techniques for effective student learning
Institute of Management	<ul style="list-style-type: none"> • Emphasis on Outcome based Education • Field projects • Regular short-term workshops on variety of topics, including Business Analytical, Big Data, Analysing Financial Statements, Entrepreneurship & New Venture Creation, Sales Management, Mind Mapping, Excel, Business Etiquette, Design Driven Innovations, Habits of Highly Effective People, and Cyber Security, etc. • Continuous evaluation through group assignments, quizzes, class tests, etc. • More emphasis on case methodology and simulations in pedagogy. • International and national industrial visits
Institute of Pharmacy	<ul style="list-style-type: none"> • Massive Online Open Courses (MOOCs) were made compulsory for 2nd year M.Pharm. students. • OBE based syllabus revision for B.Pharm. and M.Pharm. programmes • Use of blog for each course to ensure 24X7 learning
Institute of Science	<ul style="list-style-type: none"> • Cooperative and Collaborative teaching. • Involvement of alumni and industry representatives in curriculum design and teaching. • Rubrics based assessment in different components of continuous evaluation.
Institute of Law	<ul style="list-style-type: none"> • Use of blog for each course to ensure 24X7 learning. • Use of Experiential Learning Mechanism. • Assessment Rubrics for mapping the progress of the student.
Institute of Architecture	<ul style="list-style-type: none"> • Teaching and learning based on case studies and working model preparation. • Use of videos. • Use of ICT tools for teaching-learning. • Field visits to develop better understanding.

	<ul style="list-style-type: none">• Exposure to stalwarts in the field by way of organizing lectures.• Project based learning in all courses.
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ANNEXURE 5

Course / Programme wise Distribution of Pass Percentage for the year 2015-16

Title of the Programme	Total No. of Students Appeared		Out of total appeared Division									
			Distinction %		I %		II %		III %		Total Pass %	
			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
B. Tech. in Civil Engineering	61	8	31.75	37.50	49.18	50.00	19.70	12.50	-	-	100.00	100.00
B. Tech. in Chemical Engineering	59	22	35.71	72.73	39.29	18.18	25.00	9.09	-	-	94.92	100.00
B. Tech. in Mechanical Engineering	76	2	57.33	50.00	30.67	50.00	12.00	-	-	-	98.68	100.00
B. Tech. in Electrical Engineering	59	8	42.37	37.50	50.85	62.50	6.78	-	-	-	100.00	100.00
B. Tech. in Instrumentation and Control Engineering	47	16	43.48	66.67	39.13	26.67	17.39	6.67	-	-	97.87	93.75
B. Tech. in Electronics and Communication Engineering	101	41	48.00	68.29	41.00	24.39	11.00	7.32	-	-	99.01	100.00
B. Tech. in Computer Engineering	104	44	52.43	41.86	38.83	51.16	8.74	6.98	-	-	99.04	97.73
B. Tech. in Information Technology	49	21	38.78	66.67	40.82	28.57	20.41	4.76	-	-	100.00	100.00
B. Pharm.	31	38	53.33	73.68	36.67	26.32	10.00	-	-	-	96.77	100.00
B.A. LL.B. (Hons.) and B.Com. LL.B.(Hons.)	119	109	53.40	77.23	42.72	21.78	3.88	0.99	-	-	86.55	92.66
MCA	56	15	48.21	80.00	48.21	20.00	3.57	-	-	-	100.00	100.00
M. Tech.	293	117	73.79	89.74	25.86	10.26	0.34	-	-	-	98.98	100.00
M. Tech. (by Research)	4	-	100.00	-	-	-	-	-	-	-	100.00	-
M. Pharm. - Clinical Pharmacy	-	4	-	100.00	-	-	-	-	-	-	-	100.00
M. Pharm. - Drug Discovery	1	2	100.00	100.00	-	-	-	-	-	-	100.00	100.00
M. Pharm. - Medicinal Chemistry	1	1	-	-	100.00	-	-	-	-	-	100.00	0.00
M. Pharm. - Pharmaceutical Analysis	1	6	-	83.33	-	16.67	-	-	-	-	0.00	100.00
M. Pharm. - Pharmaceutical Technology and Bio-Pharmaceutics	12	8	75.00	87.50	25.00	12.50	-	-	-	-	100.00	100.00
M. Pharm. - Pharmacology	-	7	-	71.43	-	28.57	-	-	-	-	-	100.00
M. Pharm. - Regulatory Affairs and	3	6	66.67	83.33	33.33	16.67	-	-	-	-	100.00	100.00

Quality Assurance												
M.Sc. Biochemistry	4	9	50.00	55.56	50.00	44.44	-	-	-	-	100.00	100.00
M.Sc. Biotechnology	11	21	70.00	71.43	30.00	28.57	-	-	-	-	90.91	100.00
M.Sc. Microbiology	4	10	0.00	60.00	100.00	40.00	-	-	-	-	75.00	100.00
M.Sc. Cosmetic Technology	2	6	50.00	80.00	50.00	20.00	-	-	-	-	100.00	83.33
LL.M. - Legal Pedagogy and Research	-	2	-	-	-	100.00	-	-	-	-	-	100.00
LL.M. - Criminal and Security Law	-	1	-	-	-	100.00	-	-	-	-	-	100.00
LL.M. - Commerce and Corporate Law	4	1	-	-	75.00	100.00	25.00	-	-	-	100.00	100.00
LL.M. - Constitutional and Administrative Law	-	4	-	-	-	100.00	-	-	-	-	-	100.00
LL.M. - Science, Technology and Law	1	1	-	-	100.00	100.00	-	-	-	-	100.00	100.00
M. B. A. (Full Time)	158	73									96.83	100.00
MBA(FB&E)	44	15									93.18	93.33
M.B.A. (Part Time)	02	--									100.00	--

ANNEXURE 6

Externally Funded Major Research Projects Completed During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)	State / National/ International Level
1.	District Human development Report-Rajkot	Dr. RaghuvirMody, Dr. Yogesh M. Doshit	September 2014	April 2015	Gujarat Social Infrastructure Development Society	6,00,000/-	State
2.	District Human development Report-Junagadh	Dr. RaghuvirMody, Dr. Yogesh M. Doshit	September 2014	April 2015	Gujarat Social Infrastructure Development Society	6,00,000/-	State
3.	Identification of compounds from ginger, cinnamon and gooseberry extracts having the potential to prevent protein aggregation and characterization of their mechanism of action	Dr. Mili Das	May 2012	March 2016	Department of Biotechnology (DBT), Government of India	45,00,000/-	National
4.	Exploring the colonization of non-rhizobia and understanding the fate of rhizobacteria during rhizobial infection in mung bean	Dr. Shalini Rajkumar	August 2012	August 2015	Department of Biotechnology (DBT), Government of India	27,00,000/-	National
5.	Design and Development of Spatio-Temporal	Dr. Sanjay Garg, Dr. K.P. Aggrwal	May 2013	June 2015	ISRO	10,80,000/-	National

	Data Mining Technique and Software Framework for Earth Observation Data						
6.	To study satellite derived river discharge and its seasonal to inter-annual variation using radar altimeter	Dr. P. V. Patel, Dr. P. R. Patel	September 2011	September 2014	ISRO	9,00,000/-	National

Ongoing Externally Funded Major Research Projects During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)	State / National/ International Level
1.	Exploring the effect of histone deacetylases (HDAC) in cancer-cachexia and their downstream targets	Dr. Bhoomika Patel	25/05/2015	Ongoing	Science and Engineering Research Board	27,00,000/-	National
2.	Glutathione Appended Polymer Nano constructs of Asiatic acid for efficacious Neuro protective agents	Dr. Sanjeev Acharya	01/01/2015	Ongoing	Department of Biotechnology	45,56,800/-	National
3.	Liquid Phase combinatorial synthesis of benzimidazole library for antitubercular activity	Dr. Manjunath Ghate	03/09/2014	Ongoing	Department of Science and Technology	34,00,000/-	National
4.	Isolation of bioactive compound from fruit juice of Emblicaofficinalisand investigation into the molecular mechanism of action.	Dr. Snehal S. Patel	26/04/2013	Ongoing	Department of Science and Technology	23,00,000/-	National
5.	Understanding the nature of liver-stage specific CD8+T cells generated following infectious	Prof. Sarat Dalai	June 2012	Ongoing	Department of Biotechnology (DBT), Government of India	43,00,000/-	National

	sporozoite challenge that ensure long-lived protection against plasmodia infection						
6.	Generation of thermostable variants of a mesophilic amylase by directed evolution and their characterization	Prof. Sarat Dalai	June 2014	Ongoing	Gujarat State Biotechnology Mission (GSBTM), Department of Science and Technology (DST) , Government of Gujarat	15,95,000/-	State
7.	Identification of CD8+T cell – specific to liver-stage antigens of Plasmodium berghei to understand anti-malarial protective immunity	Prof. Sarat Dalai	March 2013	Ongoing	Gujarat State Biotechnology Mission (GSBTM), Department of Science and Technology (DST) , Government of Gujarat	19,75,000/-	State
8.	Ideopathic mental retardation and dysmorphism: Karyotypic and UPD Analysis	Dr. SonalBakshi	June 2014	Ongoing	Gujarat State Biotechnology Mission (GSBTM), Department of Science and Technology (DST) , Government of Gujarat	15,27,000/-	State
9.	Biochemical basis of repression of MPS phenotype in rhizobia	Dr. ShaliniRajkumar	July 2014	Ongoing	Gujarat State Biotechnology Mission (GSBTM), Department of Science and Technology (DST) , Government of Gujarat	14,33,000/-	State
10.	Molecular basis of succinate mediated (catabolite) repression of mineral phosphate solubilization in nitrogen fixing Klebsiella pneumonia	Dr. Shalini Rajkumar	June 2014	Ongoing	Detp. of Science and Technology	28,88,000/-	National
11.	Infectious nature of Plasmodia modulating the innate response of host in liver stage infection deciding the fate of adaptive immunity”	Prof. Sarat Dalai	June 2015	Ongoing	Dept. Science and Technology New Delhi	52,10,000/-	National

12.	Development of Chimeric IL-15 to improve its bioavailability and efficacy.	Prof. Sarat Dalai	June 2015	Ongoing	Department Of Biotechnology (DBT), Govt. of India	34,18,000/-	National
13.	Reconstitution of novel TK/NOG mice with 'Humanized Liver' to study liver stage infection of Plasmodium falciparum	Dr. Rajeev Tyagi	April 2016	Ongoing	SERB-DST	44,00,000/-	National
14.	Regulation of MHC II expression: Immunity to malaria	Dr. Pranati Sar	April 2016	Ongoing	SERB-DST	35,10,000/-	National
15.	Role of Cell Adhesion Molecules (CAMs) for insuling secretion during Diabetic and Hypoglycemic condition	Dr. Ameer Nair	April 2016	Ongoing	Dept, of Science and Technology	29,40,000/-	National
16.	Investigation of the regulatory role of miR-712 in inflammation induced skeletal muscle insulin resistance	Dr. Sriram Seshadri	June 2016	Ongoing	Department of Biotechnology, Govt. of India	7,13,000/-	National
17.	Oceanic Pollution and Other Ocean Phenomenon Monitoring Using Feature Extraction from Multi-Polarized SAR data.	Dr. T. H. Zaveri	14/07/2015	Ongoing	ISRO	18,26,000/-	National
18.	Application of precast products made using bottom ash and fly ash for rural pavements and other infrastructure in India	Dr. U. V. Dave	06/07/2015	Ongoing	IC-IMPACTS	40,88,000/-	International
19.	Process development for minimization of springback deformation and enhancement of profile accuracy of CFRP reflectors	Prof. S J Joshi, Dr B A Modi, Dr K M Patel	24/03/2015	Ongoing	ISRO	14,52,000/-	National
20.	Development of Passive Damping Surface Coating for Advanced Materials based Structural System using PZT (Piezo) Powder	Dr. S. P. Purohit, Dr. P. V. Patel	25/08/2014	Ongoing	ISRO	8,09,000/-	National
21.	Study the behavior of precast beam-column junction under progressive collapse scenario – An experimental and analytical investigations	Dr. P. V. Patel Prof. D. D. Joshi	17/07/2014	Ongoing	SERB-DST	20,50,000/-	National

22.	Optimization of Corrugated Horn Antenna using Adaptive Neuro-Fuzzy Inference System	Dr. D. A. Pujara, Dr. D. M. Adhyaru	01/04/2014	Ongoing	ISRO	11,04,000/-	National
23.	Understanding the immersed friction stir welding of aluminum alloys(SERB-DST)	Prof. N. D.Ghetiya, Dr. K.M. Patel	08/09/2013	Ongoing	SERB-DST	13,00,000/-	National
24.	Reduction of E-Factor in Dyes and Pigment Industries (Environmental Pollution Control)	Dr. Parin Shah	06/09/2013	Ongoing	Green Environment Services Co-op. Soc. Ltd. - CETP, Vatva.	7,50,000/-	State
25.	Radiation Harden by Design (RHBD) Standard Cell Library Development	Dr. N. M. Devashrayee	12/06/2013	Ongoing	ISRO	21,36,000	National
26.	Use of Marine Sand in Concrete Construction	Dr. U. V. Dave	16/09/2012	Ongoing	Adani Infrastructure Limited	2,50,000	National
27.	Calibration and Validation of RISAT-1 SAR Sensor and RISAT-1 derived soil moisture	Dr. P. R. Patel	02/06/2012	Ongoing	ISRO	22,00,000	National
28.	Using deep learning to understand and predict the dynamics of Tokamak discharges	DrPriyanka Sharma	-	-	Board of Research in Nuclear Sciences(Department of Atomic Energy)	26,00,000	National

Externally Funded Major Research Projects (From April 01, 2015 to June 30, 2016) Sanctioned

Sr. No.	Title of the Research Project	Name of Principal Investigator	Date of Project Start	Funding Agency	Total Sanctioned Funding (in ₹)	State / National /International Level
1.	Epidemiology of anemia in pre-school tribal children of eastern Gujarat with reference to etiology, pathophysiology and nutritional impact	Dr. Shital Panchal	Principally Approved	Indian Council of Medical Research	Amount yet to be declared	National

Major Research Projects Submitted to External Agencies During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Funding Agency	Total Sanctioned Funding (in ₹)	State / National /International Level
1.	Development and Standardization of formulations and pharmacological evaluations of its efficacy and safety for the management of cardiovascular disease	Dr. Snehal Patel	Department of Science and Technology	10,50,000/-	National
2.	Investigation into neuroprotective effects of Bacosides in Alzheimer's disease and to determine its mechanism of action	Dr. Niyati Acharya	SERB-DST	32,26,000/-	National
3.	Phytopharmacological investigation and formulation development of Ayurvedic Medicinal Plants for Angiotensin-Converting Enzyme (ACE) inhibitor Activity	Dr. Vimal Kumar	Department of Science and Technology	50,44,600/-	National
4.	Development of neoadjuvant therapy from medicinally important bamboo plants for radiotherapy in cancer	Dr. Priti Mehta	AYUSH	54,65,070/-	National
5.	Targeted therapy of bioactive constituent from Euphoria longana for oral cancer	Dr. Jigna Shah	SERB-DST	24,86,000/-	National
6.	Investigation and Evaluation of Bioactive Fraction of Euphoria longana as targeted therapy for Alzheimer's Disease	Dr. Jigna Shah	AYUSH	42,15,000/-	National
7.	Development and Characterization of Carotenoid Nano formulation for its anti-oxidant and anti-proliferative activity	Dr. Tejal Mehta	GSBTM	29,63,520/-	State
8.	Generation of Novel leads from Antiviral Compounds for treatment of Alzheimer's disease	Dr. Jigna Shah	GSBTM	28,88,930/-	State
9.	Interferon inducer for cancer treatment in combination with bcl-2 specific siRNA as targeted breast cancer therapy.	Dr. Snehal Patel	GSBTM	29,77,420/-	State
10.	Investigation into the mechanism of non-remission of diabetes in patients undergoing bariatric surgery	Dr. Bhoomika Patel	GSBTM	30,50,300/-	State
11.	Space radiation protective mechanism for	Dr. Priti Mehta	ISRO	33,22,080/-	National

	medicines during short and long duration human space flights				
12.	Exploration of potential of <i>L. usiatisimum</i> in colorectal cancer	Dr. Bhoomika M. Patel	AYUSH	43,58,670/-	National
13.	Assessment of neuroprotective effects of <i>Bergenia ciliate</i> in degenerative diseases	Dr. Niyati Acharya	DST	33,27,034/-	National
14.	Investigation into therapeutic potential of Guanosine analogues for the treatment of Alzheimer's disease.	Dr. Jigna Shah	DST	38,51,840/-	National
15.	Development of neoadjuvant from medicinally important bamboo plants for radiotherapy in cancer	Dr. Sonal Bakshi	AYUSH	54,56,000/-	National
16.	Induction of antigen specific memory T cells by mimicking natural infection	Prof. Sarat Dalai	National Institute of Health, USA (SKD)	186,66,000/-	International
17.	Understanding the functional role of co-activator binding protein PIMT in inflammation induced insulin resistance/type 2 diabetes	Dr. SriramSeshadri	Department of Biotechnology, Govt. of India (SS)	13,75,000/-	National
18.	<i>Plasmodium falciparum</i> infection in reconstituted 'Humanized Liver' in TK/NOG mice: more than a tour de force	Dr. Rajeev Tyagi	DBT-Wellcome Alliance (Early Career Fellowship) under (RT)	170,00,000/-	National
19.	Reconstitution of novel TK/NOG mice with 'Humanized Liver' to study liver stage infection of <i>Plasmodium falciparum</i>	Dr. Rajeev Tyagi	SERB-DST	50,00,000/-	National
20.	Reconstitution of novel TK/NOG mice with 'Humanized Liver' to study liver-stage infection of <i>Plasmodium falciparum</i> and Hepatitis	Dr. Rajeev Tyagi	BIRAC-DBT	152,00,000/-	National
21.	Selection of highly Artemisinin-resistant <i>Plasmodium falciparum</i> with Quinine co-resistance under in vitro artesunate pressure, and its validation in "humanized mice"	Dr. Rajeev Tyagi	FAP-GSBTM	35,12,000/-	State
22.	Investigation of the molecular basis of enhanced alcohol production by <i>Saccharomyces cerevisiae</i> under influence of audible sound	Dr. Vijay Kothari	SERB-DST	20,00,000/-	National

23.	Development of Microbial fuel cell for industrial waste water treatment and energy generation	Dr. Nasreen Munshi	MNRE, Govt. Of India (NM)	62,24,000/-	National
24.	Elucidating the role of short chain fatty acids (SCFAs) and its receptors in high sugar diet induced type II diabetes	Dr. Sriram Seshadri	Gujarat State Biotechnology Mission (GSBTM), Department of Science and Technology (DST), Government of Gujarat (SS)	32,96,000/-	State
25.	Development and application of bioprocess for evaluation of hydrocarbon pollutant levels in industrial wastewater	Dr. Nasreen Munshi	Gujarat State Bio-Technology Mission (GSBTM)	29,77,000/-	State
26.	Role of hypoglycemia and hyperglycemia induced alteration in Neuregulin1-ErbB in oligodendrocytesin vitro	Dr. Ameer Nair	GSBTM (AN)	29,97,000/-	State
27.	Investigation on quorum sensing inhibitory potential of <i>P. embilica</i> seeds	Dr. Vijay Kothari	GSBTM (VK)	28,33,000/-	State
28.	Interferon inducer in combination with bcl-2 specific siRNA as targeted breast cancer therap	Dr. Heena Dave	GSBTM HD	11,23,000/-	State
29.	Understanding the role of Androgen receptor to improve outcomes of breast cancer	Dr. Heena Dave	DBT-BIOCARE	59,58,000/-	National
30.	Studies with Water Jet Cavitation for Wastewater Treatment	Dr. Jayesh Ruparelia, Prof. Sandip Sharma, Prof Priya Saxena	CETP	54,24,900/-	State
31.	Spectral Discrimination and Separability Analysis of Crops and Weeds using Deep Learning Techniques	Dr. Vibha Patel	ISRO	12,35,000/-	National
32.	Design and development of a Cloud based secured framework for decision supporting system based on agro-climatic crop yield model for estimation and prediction of major crop yields	Dr. Madhuri Bhavsar	DEITY	59,22,117/-	National

Externally Funded Minor Research Projects Completed During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)	State / National /International Level
1.	Survey and development of strategy for removal of nutrients from stagnant water bodies in and near Ahmedabad region	Dr. Nasreen Munshi	April 2015	March 2016	iCreate (International Center for Entrepreneurship and Technology) Minor Project(NM)	40,000/-	State
2.	Evaluation of Boric Acid induced male reproductive toxicity and ascertaining reversals potential of hydro-alcoholic extracts of Eclipta Alba	Dr. Sriram Seshadri	March 2013	March 2016	GUJCOST	2,00,000/-	State
3.	Comparative study of the nature of innate immunity generated in response to attenuated (yspz) vs. infectious sporozite in plasmodia infection	Prof. Sarat Dalai	March 2013	March 2016	GUJCOST	4,85,000	State
4.	Parallelization of molecular dynamics and turbulence codes related to nuclear fusion using CUDA	Dr.Priyanka Sharma, Prof Monika Shah	24/12/2013	24/12/2015	Institute of Plasma Research, Gandhinagar	7,20,000	National

Externally Funded Ongoing Minor Research Projects April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)	State / National /International Level
1.	District Action Plan for Protecting Child Rights (Vadodara and Banaskantha)	Dr. K P Malik	01/05/2015	Ongoing	MGLI / Government of Gujarat	2,00,000/-	State
2.	Screening and characterization of Anti-cancer bioactive Principle from the indigenous plants of Dang Forest, Gujarat	Dr. Priti Mehta	28/03/2016	Ongoing	GUJCOST	3,00,000/-	National
3.	Effect of polyphenols containing plant extracts in the treatment and prevention of age related neuro-degenerative disorders	Dr. Shital Panchal	28/03/2016	Ongoing	GUJCOST	5,35,000/-	National
4.	Design and synthesis of novel pteridine derivatives as Auora Kinase inhibitors for the treatment of cancer	Dr. Hardik Bhatt	28/03/2016	Ongoing	GUJCOST	2,70,000/-	National
5.	Investigation of the role of Tephrosiapurpurea in the cardiovascular complications in rats	Dr. Shraddha Bhadada	28/03/2016	Ongoing	GUJCOST	3,90,000/-	National
6.	Evaluation of chemoprotective potential of active constituent of L. usitatissimum in colon cancer associated with diabetes mellitus	Dr. Bhoomika Patel	28/03/2016	Ongoing	GUJCOST	2,80,000/-	National

7.	Investigation into neuroprotective effects of <i>Bergenia ciliate</i> roots in Alzheimer's disease with special reference to bergenin	Dr. Niyati Acharya	18/05/2015	Ongoing	GUJCOST	3,22,000/-	National
8.	Ocular iontophoretic delivery of nanoparticles via transscleral route for posterior disease	Dr. Jigar Shah	18/05/2015	Ongoing	GUJCOST	7,00,000/-	National
9.	Development and Optimization of mucoadhesive film for treatment of vaginal candidiasis	Dr. Renuka Mishra	30/03/2015	Ongoing	GUJCOST	4,85,000/-	National
10.	Investigation of mechanism of action of selected herbal drugs for the treatment of attention deficit hyperactivity disorder (ADHD)	Dr. Jigna Shah	30/03/2015	Ongoing	GUJCOST	4,80,000/-	National
11.	Design and synthesis of quinoline derivatives as novel apoptosis inducers	Dr. Vivek Vyas	30/03/2015	Ongoing	GUJCOST	6,55,000/-	National
12.	Development of self emulsifying drug delivery systems for poorly soluble antihypertensive drug	Dr. ShitalButani	30/06/2014	Ongoing	GUJCOST	3,60,000/-	State
13.	Isolation and characterization of marker from polyherbal formulation	Dr. Charmy Kothari	30/06/2014	Ongoing	GUJCOST	5,00,000/-	State
14.	Investigation into the prevalence of pre-diabetic status in school going children in Gujarati population and evaluation of its association with	Dr. Snehal Patel	30/06/2014	Ongoing	GUJCOST	3,50,000/-	State

	various risk factors.						
15.	Computer aided drug design and pharmacological evaluation of cyclooxygenase-2 (COX-2) inhibitors: An Efficient conversion of Non-steroidal Anti-inflammatory drugs to potent and highly selective COX-2 /- inhibitors	Dr. Jignasa Savjani	30/06/2014	Ongoing	GUJCOST	3,50,000/-	State
16.	Development and Optimization of Formulations containing Glycin max (Soyabean), Moringaoleifera and Phoenix dactylifera for the Treatment of Malnutrition	Dr. Vimal Kumar	30/06/2014	Ongoing	GUJCOST	5,00,000/-	State
17.	Investigating the role of histone deacetylase(HDAC) inhibitors in diabetes and colon cancer, and development of site specific drug delivery systems	Dr. Mayur M. Patel	30/06/2014	Ongoing	GUJCOST	4,00,000/-	State
18.	In-silico designing, synthesis and pharmacological screening of Dipeptidyl peptidase-4 (DPP-4) inhibitors as novel antidiabetic agents	Prof. Manjunath Ghate	16/04/2013	Ongoing	GUJCOST	5,00,000/-	State
19.	Downs syndrome In Gujarat: Molecular Probing In Origin	Dr. Sonal Bakshi	July 2014	Ongoing	GUJCOST	6,00,000/-	State

20.	Investigation of the molecular basis of enhanced EPS production by <i>X. campestris</i> under the influence of audible sound	Dr. Vijay Kothari	March 2015	Ongoing	GUJCOST	3,99,000/-	State
21.	Demographic survey of major cities of Gujarat for creation of Diabetic map/-	Dr. Ameer Nair	March 2015	Ongoing	GUJCOST	1,46,000/-	State
22.	Establishment of Free Space Optical communication link for real time audio transmission	Prof. D. G. Shah Dr. D. K. Kothari	01/04/2015	Ongoing	GUJCOST	3,41,000/-	State
23.	Design of Low Noise, Low Power, Automatic Gain Controlled Amplifier for Biomedical Applications	Prof. D. J. Panchal Prof. A. I. Mecwan Prof. V. G. Savani	01/04/2015	Ongoing	GUJCOST	3,20,000/-	State
24.	Development of Microscopic Technique for Automatic Characterization of the Cell Organisation for Authentication of few Indian Herbal Plants	Dr. T. H. Zaveri Prof. B. D. Fataniya	01/04/2015	Ongoing	GUJCOST	2,30,000/-	State
25.	Experimental investigation on Ultrasonic Single Point Incremental Forming	Dr. B.A. Modi, Prof. A.M. Gohil	28/03/2016	Ongoing	GUJCOST	5,30,000/-	State
26.	Dynamic Characterization of Shock Table	Dr. S. P. Purohit, Dr. P. V. Patel	17/01/2015	Ongoing	GUJCOST	7,40,000/-	National
27.	Synthesis of cross linked starch and study its application of in taste masking /coating for drug delivery application	Prof. Nimish Shah	01/01/15	Ongoing	Stabicoat Vitamins, Ahmedabad	71,500/-	State

28.	Process Development for Hydrogen Production through Solar Thermal Energy	Dr. R. K. Mewada, Dr. S S Patel	15/12/2014	Ongoing	GUJCOST	4,00,000/-	State
29.	Determination and Predictions of Thermophysical Properties of Biodiesel and its Blends	Dr. M. H. Joshipura, Dr. A. P. Vyas	15/12/2014	Ongoing	GUJCOST	3,30,000/-	State
30.	Object Detection and surveillance system	Dr. Sanjay Garg, Prof Vijay Ukani	01/08/2014	Ongoing	GUJCOST	4,00,000/-	National
31.	Design and development of automated and reliable service provisioning cloud architecture for engineering educational domain	Dr. Madhuri Bhavsar	01/08/2014	Ongoing	GUJCOST	3,00,000/-	National
32.	DNA Sequencing and Assembly using GPU	Dr. Vibha Patel, Prof Monika Shah	01/08/2014	Ongoing	GUJCOST	4,00,000/-	National
33.	Precision Agriculture Support System using Wireless Sensor and Actuator Network	Dr. D. K. Kothari, Prof. S. H. Gajjar Prof. M. A. Upadhyay	01/07/2014	Ongoing	GUJCOST	4,50,000/-	State
34.	Low Temperature Synthesis and Characterization of Magnetic Nanoparticles	Dr. Chetna Chauhan	01/07/2014	Ongoing	GUJCOST	4,95,000/-	State
35.	Design of a Hybrid System for Seamless Communication Across DVB-RCS and LTE Networks	Dr. Y. N. Trivedi, Dr. N. P. Gajjar	01/07/2014	Ongoing	GUJCOST	3,00,000/-	State
36.	Spectrum Sensing Techniques in Cognitive Radio	Prof. Rina Parikh, Dr. Y. N. Trivedi	01/07/2014	Ongoing	GUJCOST	3,00,000/-	State
37.	Experimental Investigation of life cycle analysis and combustion	Dr. R. N. Patel, Prof. A. M. Lakdawala,	30/06/2014	Ongoing	GUJCOST	8,10,000/-	State

	characteristic of CI Engine operating on Esterified Oil and its blends with Bio Additives	Prof. N. K. Shah					
38.	Design of ADC for Biomedical Applications	Dr. N. M. Devashrayee, Dr. A. P. Naik	01/04/2013	Ongoing	GUJCOST	4,50,000/-	State
39.	New Testing Methods at Design Level for Improvement in Performance of VLSI in Nanometer Region	Dr. U. S. Mehta, Prof. P. M. Bhatasana	28/03/2013	Ongoing	GUJCOST	4,35,000/-	State

Externally Funded Minor Research Projects Sanctioned During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)	State / National /International Level
1.	Nanoparticulate systems for prolonged delivery of antitubercular drug combinations: An in vitro and in vivo investigation	Dr. Mayur Patel	09/12/2015	-	Indian Council of Medical Research	11,00,000	National

Minor Research Projects Submitted for External Funding During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Principal Investigator	Funding Agency	Total Sanctioned Funding (in ₹)	State / National /International Level
1.	Estrogen Receptor Beta mediates Tamoxifen response in breast cancers	Dr. Heena Dave	GUJCOST	8,90,000/-	State
2.	Semantic Enabled Cloud for Meteorological Data Processing	Prof Swati Jain, Dr. MadhuriBhavsar	GUJCOST	7,40,000/-	National

3.	Error Resilience Video Coding for Robust Multimedia delivery over IP based wireless Surveillance System/-	DrPriyanka Sharma, DrSharadaValiveti	GUJCOST	5,85,000/-	National
4.	Micro Controller based Investigation of Mental Fitness of a Vehicle Driver	Dr. Kamal Mehta, Dr. Madhuri Bhavsar	GUJCOST	5,62,000/-	National

Nirma University Funded Ongoing Major Research Projects During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Investigators	Date of Project Start	Funding Agency	Total Sanctioned Funding (in ₹)
1.	Affordable Pd doped Perovskite based catalytic converter for abating automotive emission	Dr. Femina Patel, Dr. Sanjay Patel, Prof. N K Shah	5/10/2015	Nirma University	27,000,00/-
2.	Formulation development and evaluation of Nano-particulate systems for targeted delivery of anticancer agents	Dr. Mayur Patel, Dr. Bhoomika Patel, Dr. Heena Dave	09/05/2016	Nirma University	28,92,400/-

Nirma University Funded Ongoing Minor Research Project (From April 01, 2015 to June 30, 2016)

Sr. No.	Title of the Research Project	Name of Investigators	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)
1.	Environmental Audit Framework (A case study of Nirma University)	Prof. Pratima Singh	01/01/2016	30/06/2016	Nirma University	1,00,000/-

Nirma University Funded Minor Research Projects Completed During April 01, 2015 to June 30, 2016

Sr. No.	Title of the Research Project	Name of Investigators	Date of Project Start	Date of Project End	Funding Agency	Total Sanctioned Funding (in ₹)
1.	Digital image classification in human chromosome analysis: Computer approach to automation	Dr. Sonal Bakshi	April 2014	December 2015	Nirma University	25,000/-

ANNEXURE VII

Best Practices

Best Practice – I

Title of the Practice:

Academic Audit

Objectives of the Practice:

The department / institute and organization takes up an Academic Audit as a self – check for faculty skill building, evaluating strengths and limitations, defining - redefining processes, setting – raising the goals and better governance. Academic Audit in HEIs is a process by which the learning – teaching standard are raised to global level, research participation is analyzed, institute processes are monitored. This documents the improvement feasible in many activities (in comparison to benchmarks) and enables University to offer necessary guidance to institutes for betterment. The audit process shall take place on regular basis, may take external expert inputs, report of the audit be discussed at appropriate forum and the actions be taken to improve the system.

The objectives of various levels of Academic Audit are to:

- To mold and groom teachers by way of active participation of senior colleague
- To improve the quality of learning - teaching process and research activities
- To identify the strength and weaknesses of an individual faculty and organization
- To enhance academic standards and strengthen the institute level functioning for its overall development
- To help the university to redefine - raising goals, guide its institutions to better academic functioning
- To suggest ways to overcome limitations observed by self – evaluation / accreditation agencies, and above all moving continuously to fulfil its own vision and mission
- To strengthen the training and orientation programme and monitoring system in the Department / Area and Institute

The Context:

The higher education institutes and the University are shaping the careers of the students and building societies and future of mankind. It is desired that the stakeholders' expectations are to be met with while continuously improving the performance. The academic audit at various levels can help assessing the performance at classroom / department level, at institute level and at University level against set goals / benchmarks. It also observes the processes followed very closely and suggests institutes for the improvement. The academic audit at three tiers mainly echoes the following aims:

- To monitor the activity carried out at classroom level i.e. student – faculty interaction. The aim is not to replace other ways of evaluation, but molding the teachers to be the learner centric under the guidance of their experienced colleague.
- To enhance academic standards and strengthen the institute level functioning for its overall development. The audit shall act as a self – check determining attainment of set goals and help framing the appropriate annual objectives. It is the self – evaluation process of the institute by itself.

- To observe the efforts of the constituent institutes in leveraging the academic and research standards, conformity to strategic planning, adherence – implementation of University policies and overseeing research and extension activities for social benefits etc.

The Challenges in Adopting Academic Audit are:

- Limited no. of senior and experienced faculty members to guide the junior faculty members
- Awareness of the processes and structured guidelines at professional institutes
- Motivation among senior faculty members to do “non – academic” and administrative work
- Non – single tone (ambiguous) guidelines from multiple accreditation / statutory agencies for standard processes
- Rigorous documentation involved and follow up

The Practice:

The academic audit is an introspection tool, offering checks on various activities at educational institutes enabling academicians (and administrators) to update the methods and policies to enhance the standards. At Nirma University, the three tier audit process is adopted for rigorous observations. The classroom effectiveness is ensured by the peer faculty classroom observations, the institute planning execution - processes (inter department) are monitored by the institute level audit committee and the University level committee monitors overall progress of the institute and maintenance of standards as a whole.

The process for the practice is as follows:

- The structured guidelines for observing three levels of audit are prepared which includes the preamble, suggestive modalities, involvement and the administrative process.
- The audit at different levels takes place at prescribed time intervals.
 - i) Peer faculty classroom observations – Twice a month
 - ii) Institute level academic audit – random during semesters, twice at least in a structured way
 - iii) University level academic audit – Once a year
- The committees for the academic audit is as prescribed –
 - i) Peer faculty classroom observations – faculty having experience of at least 5 years of teaching, appointed by department concerned
 - ii) Institute level academic audit – inter department audit to be carried out by institute constituted committee with one university nominee (appointed by Director General)
 - iii) University level academic audit –inter institute audit carried out by University appointed committee with at least one external expert (relevant to area of institute functioning).
- The process for the audit to be followed as per the prescribed time frame and overall monitoring of the audit at all the constituent institutes is done by Academic Development and Research (ADR) Cell of the University.
- The various reports submitted are discussed at Institute IQACs, at ADR Cell and the University forum. The reports are analyzed and the actions taken / to be taken are discussed with concerned Head of the Institute.
- Necessary improvements, suggestions are offered by University time to time to improve the quality and enhance standards. Review process takes place at regular intervals.

Uniqueness in the context of Indian Higher Education:

- The professional institutions are in dire need of trained faculty members. The faculty members at assistant professor level needs to be guided for classroom delivery, processes to be followed, enhance research abilities and meet institute expectations. At the same time, institutes needs to plan the strategy to enhance the level to benchmarked institutes / statutory requirements and constant improvements. Performed activities are required to be monitored at various levels, so as to ensure right direction, right set of policies, right tools. The monitoring mechanism is the academic audit, apart from other formal feedback mechanisms.

Constraints / Limitations:

- The academic audit process includes multiple human factors. Limited no. of trained accessors, Accessors' viewpoints, non-unique processes at different professional institutes, difficulties in adopting different practices prevailing in variety, changing trends and education philosophy are the challenges the auditors / accessors required to understand and consider.

Evidence of Success:

The structured academic audits at Nirma University have been conducted since last couple of years. In the beginning when the peer faculty observations were conducted lot of points were raised under the scope of improvement. Over a period, at present, many of the points are observed to be improved. The classroom functioning have improved and the faculty confidence. The audit at institute and university level has contributed to bring the uniformity of process among various constituent institutes and the many matters are now discussed at common platform. The inputs from external experts at University level audit have been quite useful in modifying / improving institutional annual plans and processes.

Problems Encountered and Resources required:

The time and efforts of the evaluators / auditors are the major requirement for the audit process. Trained accessors / training to accessors is a basic requirement. The information about the institute undergoing audit, the systems adopted so far are to be well documented for accessors to analyze, observe and judge the performance. The reports provided then will have meaning rather than just as a ritual. It is man-power intensive process and involves good amount of documentation.

There are no problems encountered, rather it has improved institutional functioning and raised standards.

Best Practice – II**Title of the Practice:**

Faculty Development Programmes (FDP)

Objectives of the Practice:

The transformation in education philosophy, changing pattern of student behaviour, increasing penetration of technology in learning and teaching, new development in domain replacing obsolescing knowledge, quality assurance needs and research expectations from faculty members etc. demands that the faculty is equipped with all the desired tools and imparted cutting – edge information and implementation skills. The faculty development programmes are the key to keep everyone updated, motivated and energized.

The objectives of various FDPs are to:

- bring an awareness among the faculty members about the global trends in education
- to adapt to new technology for learning – teaching process
- inculcate research skills and aptitude
- understand student psychology and discuss student mentoring process
- transform a teacher to be a better and able facilitator

The Context:

In the student centric learning processes, a well-groomed faculty member can perform exceedingly well, much to the expectations of students of digital era. The changing philosophy of education and requirements of unexperienced faculty member who is yet to explore own teaching abilities are quite opposite. A faculty for primary teaching and a faculty for non-professional courses are undergoing rigorous training; however, the same is not available for the professional course teacher as it is desired to be tailor-made. The faculty training is a must to acquaint the faculty to institutional practices, to orient him / her, to enrich the content and to explore the research avenues. The training by experts provides an insight towards the nuances of various processes – academic and administrative and hence imparting training becomes essential.

The Challenges in Adopting / Imparting the FDPs are:

- To identify the areas of faculty development
- To design suitable curriculum for meet the expectations / learning needs at various levels of faculty members
- To bring the faculty members at the same level through the training modules
- To have experienced and qualified faculty / trainers
- To assess the learning, evaluate training programme effectiveness and sustained efforts to see the training imparted is implemented at various levels

The Practice:

The faculty development programmes are devised based on identified needs of faculty either through the extensive surveys or by understanding the requirements of different professional programmes. The very purpose is to prepare the teacher to meet the institutional requirements – academic and administrative, enhance his / her stature in professional and personal fronts, adhere the standardized practices in learning – teaching activities and achieve the societal good. The process for the practice is as follows:

- The structured peer faculty audit process highlights the areas of training needs. A well thought survey process also points to the faculty expectations for classroom delivery.
- The FDPs are designed to meet the faculty needs at different times of the career span. The programs are Induction training at the time of joining the institute, Orientation in the initial phase of the teaching career, discipline specific training on regular interval to appraise / to update the trends in the discipline and research orientation parallel to his / her teaching to inculcate the research aptitude.
- The faculty member is offered blends of several aspects, e.g., knowledge enrichment, classroom engagement, time management, communication, mentoring, involvement in classroom and team activities, articulation, presentation, research writing, enhancing effectiveness and dexterity skills, etc.
- During the training programme, the faculty members are guided by experts on topics, involved continuously and at the end, faculty member takes the test of learning.

- In induction training and orientation programmes, the faculty is also mentored based on the classroom delivery, learning of general and discipline specific skills.
- The faculty is motivated, oriented to become a life-long learner.
- The faculty members also introspect the course content, course delivery methods, teaching-learning strategies, pattern of evaluation and map each component to recognize the flaws, if any. The FDP involves the faculty to evolve better mechanisms / creative ways of pedagogy and offer diagnosis.
- All the programmes have a feedback mechanism, to know whether the programmes have met the expectations and delivered as per the defined programmed outcomes, wherein the faculty describes the course effectiveness; achievement of learning outcomes and feedback for the improvement.

Uniqueness in the context of Indian Higher Education:

- The training programmes are needed for the professional development of an individual – as a faculty ready to face netizen students, a quick learner and developer of new and relevant knowledge. It is the phase when the faculty gets time to know as well as update, meet the experts in the domain, develops rapport with peers and learns by experience as well.
- FDPs are useful to groom and equip teacher in the context of education philosophy, mentoring methods, skills like communication and presentation, enhance the student productivity and nurturing them.

Constraints / Limitations:

- The programmes are for faculty development and faculty guidance. The content varies on many aspects and the major constraint is experienced faculty availability with hands – on experience in the faculty training.

Evidence of Success:

The well planned FDPs at Nirma University have been conducted since last couple of years. The positive work approach is observed in the faculties who have undergone the induction and orientation training programmes. Faculty feedback and written communication indicates the faculty gratitude for having such programme. The training programme have shown smooth floating of novice in his classroom handling, approach to guiding students, improved personal communication and inclination to research as well.

Problems Encountered and Resources required:

The faculty development programs are for the benefit of the faculty and the institutes together. Availability of experienced resource persons is the major limitations. The faculty (and their local mentors in some cases) too needs to invest time in evolving various techniques for subject specific delivery, besides researching ways of improvement.

There are no problems otherwise encountered, rather it has improved faculty effectiveness.