



Annual Quality Assurance Report (2016-17)

**Submitted
By**

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

NAAC Track ID: GJUNGN10152

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

December 2017

Annual Quality Assurance Report

(Assessment Period: July 01, 2016 to June 30, 2017)

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:			
1.7	Date of Establishment of IQAC :	24/09/2009			
1.8	AQAR for the year	2016-17			
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	13-10-2016
	(vii)	AQAR 2016-17	21-12-2017
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 & Planning)	
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 UGC-Special Assistance Programme:		Being a statutory private University, at present it is not covered under Section 12 (B) of the UGC Act. Thus, although

	UGC-Innovative PG programmes	there is potentiality, the University is not eligible for such assistance. Note: The University has applied for 12 (B) status of the UGC based on its credentials and the progress made in a short span.
	UGC-COP Programmes:	
	Any other (<i>Specify</i>):	Recognition of 'Scientific and Industrial Research Organisation (SIRO)' by Department of Scientific and Industrial Research, Govt. of India.

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 July 1, 2016 to June 30, 2017:	59
2.11	No. of Meetings with Students by Head of Institute (HoI) during July 1, 2016 to June 30, 2017:	22
	[@] No. of Meetings with Alumni by HoI July 1, 2016 to June 30, 2017:	23
	^{&} No. of Meetings with Non-Teaching Staff by HoI July 1, 2016 to June 30, 2017:	33
	^{&} No. of Meetings with Faculty by HoI July 1, 2016 to June 30, 2017:	73
	Note: a) [@] Every constituent Institute of the University has an Alumni Association. The Institutes have conducted 23 meetings (approximately) during the period. Apart from this, the University has a Nirma University Alumni Forum of the past students of the University. b) ^{&} The Institutes' Heads conduct meetings with the Departments Heads and the Departments' Heads conduct regular meeting with the faculty and staff members.	
2.12	Has IQAC received any funding from the UGC during the year?	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.

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"> • The University and four constituent institutes participated in the NIRF ranking. All preparations for the same were coordinated by the concerned IQAC. • The guidelines for the Academic Audit by external experts/ agency were finalized and approved. • The Student Satisfaction Survey for all the constituent institutes of Nirma University was obtained. • Implemented scheme of Awards and Incentives for the faculty members for their outstanding contribution in teaching and research. • Implemented scheme of Awards to the staff members and the sections of the University for their Outstanding Services to the University. • Carried out 'Student Satisfaction Survey' for all the constituent institutes of the University. • Organized NAAC and British Council sponsored National Seminar on, 'Quality Initiatives: Gateways and Pathways to Institutional Excellence'. • Organized a National Level Training Programme on, 'Building a Better Teacher' for the faculty members. • Organized a National Level Training Programme on, 'Honing Research Publication Skills' for the faculty members. • Organized a four-week Induction Training, three-month Research Orientation Program and two-week Orientation Programme for the faculty members of the constituent institutes. • Organized a five-day Training Programme for the Office Assistants and staff of equivalent cadre. • Organized a three-day Training Programme for the Laboratory Assistants and Computer Operators of the constituent institutes. • Organized a ten-day Training Programme for the Office Assistants for improvement of English. • The University hosted the visit of Fulbright-Nehru delegates from various US Universities. • Institute of Technology organised 'Industry – Academia Meet' which had participation from 43 Industries. • Institute of Pharmacy initiated a proposal for becoming the Center of Excellence in Drug Discovery and Development of Cancer Research. 				
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="509 1801 1409 1885"> <thead> <tr> <th data-bbox="509 1801 922 1860">Plan of Action</th> <th data-bbox="922 1801 1409 1860">Achievements</th> </tr> </thead> <tbody> <tr> <td data-bbox="509 1860 922 1885">To comply with the requirements with</td> <td data-bbox="922 1860 1409 1885">The NAAC Peer Team report was discussed</td> </tr> </tbody> </table>	Plan of Action	Achievements	To comply with the requirements with	The NAAC Peer Team report was discussed
Plan of Action	Achievements				
To comply with the requirements with	The NAAC Peer Team report was discussed				

	<p>regards to the observations made in NAAC report.</p> <p>To prepare ten-year Perspective Plan.</p> <p>To strengthen the research wing of the University.</p> <p>To promote the use of ICT in teaching-learning, research and administration.</p> <p>To implement the scheme of Awards and Incentives for the staff members.</p> <p>To implement a scheme of Awards and Incentives for the best sections of the University</p> <p>To finalize the Core Value Framework of the University.</p> <p>To strengthen the Academic Audit by involving outside experts.</p> <p>To carry out the Student Satisfaction Survey for all the constituent institutes of Nirma University</p>	<p>several times during the meeting and necessary steps were taken to comply with the requirements.</p> <p>The necessary guidelines and formats were drafted for preparing the ten-year Perspective Plan. The first University level meeting was organized in presence of the external experts, Dr. Y. K. Alagh (Former Dy. Chairman, Indian Planning Commission) and Dr. D. P. Agrawal (Former Chairman, UPSC).</p> <p>For effective planning, implementation, and continuous monitoring of research related activities, 'Directorate of Research & Innovation' was approved by the competent bodies of the University.</p> <p>Various International / National Conferences / Workshops / Seminars were organized to provide a platform to researchers to present their research work and collaborate.</p> <p>Various programmes are being organized for increasing the use of ICT in teaching-learning and research. The Management Information System (MIS) was implemented.</p> <p>The scheme was implemented and during the assessment period, a few staff members have been awarded.</p> <p>The scheme was implemented and during the assessment period, two sections have been awarded.</p> <p>The Core Value Framework of the University was finalized, approved by the competent bodies and notified.</p> <p>The guidelines for the Academic Audit by external experts/ agency were finalized and approved.</p> <p>A survey to obtain views of the students about academic, co-curricular and campus life experiences was carried out. Also, the survey result were analyzed and discussed.</p>						
2.16	<p>Whether the AQAR was placed in statutory body: --</p> <table border="1"> <tr> <td>Management:</td> <td>√</td> </tr> <tr> <td>Syndicate:</td> <td>Not Applicable</td> </tr> <tr> <td>Any other body:</td> <td>√ University Level IQAC Committee</td> </tr> </table> <p>Provide the details of the action taken: Suggestions given by the University level IQAC are incorporated in the report.</p>	Management:	√	Syndicate:	Not Applicable	Any other body:	√ University Level IQAC Committee	
Management:	√							
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Any other body:	√ University Level IQAC Committee							

Part – B**CRITERION – I**

1.	Curricular Aspects:																																											
	1.1	Details about Academic Programmes:																																										
		<table border="1"> <thead> <tr> <th>Level of the Programme</th> <th>Number of existing Programmes</th> <th>Number of Programmes added during the year</th> <th>Number of self-financing Programmes</th> <th>Number of value added / Career Oriented Programmes</th> </tr> </thead> <tbody> <tr> <td>Ph. D.</td> <td>6</td> <td>-</td> <td>6</td> <td>-</td> </tr> <tr> <td>PG</td> <td>35[#]+1[@]</td> <td>-</td> <td>36</td> <td>-</td> </tr> <tr> <td>UG</td> <td>12</td> <td>2^{##}</td> <td>14</td> <td>-</td> </tr> <tr> <td>PG Diploma</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Advanced Diploma</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Certificate</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Total</td> <td>54</td> <td>2</td> <td>56</td> <td>-</td> </tr> </tbody> </table>	Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes	Ph. D.	6	-	6	-	PG	35 [#] +1 [@]	-	36	-	UG	12	2 ^{##}	14	-	PG Diploma	-	-	-	-	Advanced Diploma	-	-	-	-	Certificate	-	-	-	-	Total	54	2	56	-		
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Certificate	-	-	-	-																																								
Total	54	2	56	-																																								
		<p># 02 Programmes in Institute of Pharmacy and 03 Programmes in Institute of Law in which admissions were not offered are included here. @ BBA-MBA ## B. Plan. and B.Com. (Hons.)</p>																																										
		<p>List of Inter-disciplinary and Innovative Academic Programmes:</p> <ol style="list-style-type: none"> 1. M.Tech. by Research (Innovative Programme) 2. MBA in Family Business & Entrepreneurship (Innovative Programme) 3. BBA-MBA (Five Year Integrated Innovative Programme) 4. M.Pharm. Regulatory Affairs and Quality Assurance (Innovative Programmes) 5. M.Pharm. Clinical Pharmacy (Innovative Programmes) 																																										
	1.2 (i)	Flexibility of the Curriculum:																																										
		<ul style="list-style-type: none"> • Various electives like, Department Level, Institute Level and University Level are offered to the students. • Students are offered audit / special audit courses, supplementary courses, enrichment (valued added) courses for all round development. • Provision for foreign language courses from a pool of such 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:																						
	<table border="1"> <thead> <tr> <th>Pattern</th> <th colspan="3">Number of Programmes</th> </tr> </thead> <tbody> <tr> <td>Semester</td> <td colspan="3">49</td> </tr> <tr> <td>Trimester</td> <td colspan="3">07</td> </tr> <tr> <td>Annual</td> <td colspan="3">--</td> </tr> </tbody> </table>				Pattern	Number of Programmes			Semester	49			Trimester	07			Annual	--					
Pattern	Number of Programmes																						
Semester	49																						
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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"> The Institute of Commerce has been established during the year. At Institute of Technology, the Department of Computer Engineering and Information Technology were separated for smooth planning and implementation of academic activities. Similarly, Departments of Electronics and Communication Engineering and Instrumentation & Control Engineering were separated from the Department of Electrical Engineering. Process for a new Department of Design was initiated during the year. 																							

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
		457	361	239	65 ^{\$}	44	6 [*] +7 [#]
		* Adjunct Professors					
		# Adhoc Assistant Professors					
		^{\$} Includes 12 Assistant Professors having AGP of ₹ 8000/- have been considered against the post of Associate Professors.					

2.3	<p>No. of Faculty Positions Recruited (R) and Vacated (V) during the Year:</p> <table border="1" data-bbox="524 304 1341 432"> <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>56</td> <td>28</td> <td>7</td> <td>4</td> <td>2</td> <td>3</td> <td>16#+1*</td> <td>17</td> <td>82</td> <td>52</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	56	28	7	4	2	3	16#+1*	17	82	52
Assistant Professors		Associate Professors		Professors		Others		Total																							
R	V	R	V	R	V	R	V	R	V																						
56	28	7	4	2	3	16#+1*	17	82	52																						
2.4	<table border="1" data-bbox="440 617 1421 726"> <tr> <td>No. of Guest Faculty during July 1, 2016 to June 30, 2017:</td> <td>292</td> </tr> <tr> <td>No. of Visiting Faculty during July 1, 2016 to June 30, 2017:</td> <td>155</td> </tr> <tr> <td>No. of Temporary Faculty during July 1, 2016 to June 30, 2017:</td> <td>092</td> </tr> </table>	No. of Guest Faculty during July 1, 2016 to June 30, 2017:	292	No. of Visiting Faculty during July 1, 2016 to June 30, 2017:	155	No. of Temporary Faculty during July 1, 2016 to June 30, 2017:	092																								
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2.5	<p>Faculty Participation in Conferences and Symposiums during July 1, 2015 to June 30, 2016:</p> <table border="1" data-bbox="524 831 1341 1005"> <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>40</td> <td>21</td> <td>16</td> </tr> <tr> <td>Presented papers</td> <td>152</td> <td>18</td> <td>01</td> </tr> <tr> <td>Resource Persons</td> <td>24</td> <td>53</td> <td>75</td> </tr> </tbody> </table>	No. of Faculty	International Level	National Level	State Level	Attended Seminars Workshops	40	21	16	Presented papers	152	18	01	Resource Persons	24	53	75														
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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;">196</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"> • Open book examinations are conducted for several courses. • Moodle based online examinations are conducted as a part of continuous evaluation. • Institute of Law has constituted the Appeal Committee to consider the grievances of students related to continuous evaluation/all examinations. • Assessed answer sheets of all the examinations are shown to the students. 																														
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>																														

		Board of Studies / Area Committees	Faculty	Curriculum Development Workshops
		77	111	All Faculty Members
2.10	Average Percentage of Attendance of Students:	<p>Note: The figure shows involvement of internal faculty members only.</p> <p style="text-align: center;">85%</p>		
2.11	Course/Programme wise Distribution of Pass Percentage :	For details, please refer to Annexure-5.		
2.12	How does IQAC Contribute / Monitor / Evaluate the Teaching & Learning Processes :	<ul style="list-style-type: none"> • The Internal Quality Assurance Cell (IQAC) ensures quality culture at the institutional / university level. The IQAC Committee meets regularly to plan, guide and monitor the teaching-learning activities of the constituent institutes of the University. • Committee members of the IQAC regularly take feedback related to academic, co-curricular, research activities, campus life experiences, industry trends from different stake holders to maintain quality at the University level. • Monitoring of conduction of courses through regular academic reviews. • Implementation of structured mentoring policy for newly joined faculty members. • The University has a mechanism of Academic Audit at four levels, namely (i) Audit at the personal level, where the senior professors and the HoDs constantly audit the classroom teaching of the faculty members, (ii) Audit at the institutions level by an independent committee which conducts the overall audit of each departments / areas in academic, research, extension and related matters, and (iii) Audit by the University level committee for overall assessment of the different academic, research, extension and related aspects of the constituent institutions and (iv) Audit by external agency/external experts. The internal audits are conducted by IQAC team members. • Implementation of well-planned policies introduced by the University at all levels of administration. • Organizing value added seminars/workshops/need-based training programs for the faculty members and staff. 		

2.13	<p>Initiatives undertaken towards Faculty Development:</p> <table border="1" data-bbox="532 254 1333 772"> <thead> <tr> <th data-bbox="532 254 1105 443">Faculty / Staff Development Programmes</th> <th data-bbox="1105 254 1333 443">Number of faculty Benefitted during July 1, 2016 to June 30, 2017</th> </tr> </thead> <tbody> <tr> <td data-bbox="532 443 1105 478">Refresher Courses</td> <td data-bbox="1105 443 1333 478">075</td> </tr> <tr> <td data-bbox="532 478 1105 514">UGC – Faculty Improvement Programme</td> <td data-bbox="1105 478 1333 514">010</td> </tr> <tr> <td data-bbox="532 514 1105 550">HRD Programmes</td> <td data-bbox="1105 514 1333 550">004</td> </tr> <tr> <td data-bbox="532 550 1105 585">Orientation Programmes</td> <td data-bbox="1105 550 1333 585">039</td> </tr> <tr> <td data-bbox="532 585 1105 621">Faculty Exchange Programme</td> <td data-bbox="1105 585 1333 621">001</td> </tr> <tr> <td data-bbox="532 621 1105 657">Staff Training conducted by the University</td> <td data-bbox="1105 621 1333 657">096</td> </tr> <tr> <td data-bbox="532 657 1105 693">Staff Training conducted by other institutions</td> <td data-bbox="1105 657 1333 693">017</td> </tr> <tr> <td data-bbox="532 693 1105 728">Summer / Winter schools, Workshops, etc.</td> <td data-bbox="1105 693 1333 728">103</td> </tr> <tr> <td data-bbox="532 728 1105 764">Industrial Training</td> <td data-bbox="1105 728 1333 764">013</td> </tr> <tr> <td data-bbox="532 764 1105 800">Others</td> <td data-bbox="1105 764 1333 800">030</td> </tr> </tbody> </table>	Faculty / Staff Development Programmes	Number of faculty Benefitted during July 1, 2016 to June 30, 2017	Refresher Courses	075	UGC – Faculty Improvement Programme	010	HRD Programmes	004	Orientation Programmes	039	Faculty Exchange Programme	001	Staff Training conducted by the University	096	Staff Training conducted by other institutions	017	Summer / Winter schools, Workshops, etc.	103	Industrial Training	013	Others	030
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2.14	<p>Details of Administrative and Technical Staff:</p> <table border="1" data-bbox="472 884 1393 1129"> <thead> <tr> <th data-bbox="472 884 708 1045">Category</th> <th data-bbox="708 884 846 1045">Number of Permanent Employees</th> <th data-bbox="846 884 992 1045">Number of Vacant Positions</th> <th data-bbox="992 884 1182 1045">Number of Permanent positions filled during the Year</th> <th data-bbox="1182 884 1393 1045">Number of Positions filled on Contractual / Temporarily during the Year</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 1045 708 1081">Administrative Staff</td> <td data-bbox="708 1045 846 1081">104</td> <td data-bbox="846 1045 992 1081">48</td> <td data-bbox="992 1045 1182 1081">04</td> <td data-bbox="1182 1045 1393 1081">19</td> </tr> <tr> <td data-bbox="472 1081 708 1129">Technical Staff</td> <td data-bbox="708 1081 846 1129">110</td> <td data-bbox="846 1081 992 1129">34</td> <td data-bbox="992 1081 1182 1129">02</td> <td data-bbox="1182 1081 1393 1129">12</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	104	48	04	19	Technical Staff	110	34	02	12							
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																			
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CRITERION – III

3.	Research, Consultancy and Extension:	
3.1	<p>Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution:</p> <p>The IQAC has been instrumental in promoting the research climate in the institutes in the following ways:</p> <ul style="list-style-type: none"> • Implementation of University Research Policy. • Encouraging faculty members for submission of funded research proposals to the external funding agencies. • Motivating department/s for preparation of application and conduction of activities for the proposed Centre of Excellence in its domain area. • Recommending financial support for faculty members to initiate Major and Minor Research Projects. • Facilitated the constitution of the Institute Level Research Advisory Committee/Council to strengthen the research activities and to align it with the teaching and learning. 	

	<ul style="list-style-type: none"> • Introduced changes in teaching methodology of Research Methodology course for PG and PhD students. • Facilitating organization of awareness lectures, pedagogy lectures, workshops, faculty development programmes, seminar/conference related to promote research. • Preparation of the Annual Research Report. 																
3.2	Details regarding Major (Externally Funded) Projects: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td>06</td> <td>18</td> <td>14</td> </tr> <tr> <td>Outlay In ₹ Lakhs</td> <td>137.998</td> <td>524.878</td> <td>310.067</td> </tr> </tbody> </table>		Completed	Ongoing	Sanctioned	Number	06	18	14	Outlay In ₹ Lakhs	137.998	524.878	310.067				
	Completed	Ongoing	Sanctioned														
Number	06	18	14														
Outlay In ₹ Lakhs	137.998	524.878	310.067														
3.3	Details regarding Minor (Externally Funded) Projects: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Completed</th> <th>Ongoing</th> <th>Sanctioned</th> </tr> </thead> <tbody> <tr> <td>Number</td> <td>16</td> <td>25</td> <td>04</td> </tr> <tr> <td>Outlay In ₹ in Lakhs</td> <td>58.505</td> <td>110.040</td> <td>27.000</td> </tr> </tbody> </table>		Completed	Ongoing	Sanctioned	Number	16	25	04	Outlay In ₹ in Lakhs	58.505	110.040	27.000				
	Completed	Ongoing	Sanctioned														
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Outlay In ₹ in Lakhs	58.505	110.040	27.000														
3.4	Details on Research Publications: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>International</th> <th>National</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>Journals</td> <td>218</td> <td>47</td> <td>--</td> </tr> <tr> <td>e-Journals</td> <td>04</td> <td>--</td> <td>--</td> </tr> <tr> <td>Conference Proceedings</td> <td colspan="3" style="text-align: center;">201</td> </tr> </tbody> </table>		International	National	Others	Journals	218	47	--	e-Journals	04	--	--	Conference Proceedings	201		
	International	National	Others														
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e-Journals	04	--	--														
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3.5	Details on Impact Factor of Publications: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Impact Factor Range</th> <th>Impact Factor Average 2.50#</th> <th>h-index Maximum =14 Minimum =1</th> </tr> </thead> <tbody> <tr> <td>It varies in the range of 0.1 to 6.</td> <td># In calculating the average impact factor, only those papers of international journals are considered for which valid impact factor is available.</td> <td></td> </tr> </tbody> </table>	Impact Factor Range	Impact Factor Average 2.50#	h-index Maximum =14 Minimum =1	It varies in the range of 0.1 to 6.	# In calculating the average impact factor, only those papers of international journals are considered for which valid impact factor is available.											
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3.6	Research Funds Sanctioned and received from Various Funding Agencies, Industry and Other Organisations: <p style="text-align: center;">Summary of Total Grant Received During the Financial Year 2016-17 (April 01, 2016 to March 31, 2017)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Nature of the Project</th> <th>Total Funding Received during the Year (in ₹)</th> </tr> </thead> <tbody> <tr> <td>Externally funded Major /Minor Projects</td> <td>2,15,43,011/=</td> </tr> <tr> <td>Industry Sponsored Projects</td> <td>--</td> </tr> <tr> <td>Major /Minor Projects Sponsored by Nirma</td> <td>26,20,817/=</td> </tr> </tbody> </table>	Nature of the Project	Total Funding Received during the Year (in ₹)	Externally funded Major /Minor Projects	2,15,43,011/=	Industry Sponsored Projects	--	Major /Minor Projects Sponsored by Nirma	26,20,817/=								
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Major /Minor Projects Sponsored by Nirma	26,20,817/=																

		University					
			Total		2,41,63,828/=		
		Note: Details of all the projects can be found in Annexure-6.					
3.7	No. of Books Published:						
	With ISBN No	11	Without ISBN No.	03	Chapters in Edited Books 07		
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	Institute of Science has received a funding of ₹ 92 Lakhs under FIST programme from the Department of Science and Technology, New Delhi.					
	DBT Scheme/funds	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, 2016 to March 31, 2017		₹ 1,50,97,888/=				
3.11	No. of Conferences Organized by the Institution during July 01, 2016 to June 30, 2017:						
		Level Number	International	National	State	University	Institute
			03	05	02	04	01
	Sponsoring Agencies	<ul style="list-style-type: none"> • Nirma University • National Assessment & Accreditation Council (NAAC) • DST-SERB, • DBT, • ICMR, • DRDO, • INSA, • GSPC, • ASQ (American Society for Quality) • International Committee of Red Cross (ICRC) 					

		<ul style="list-style-type: none"> • United Nations High Commissioner for Refugees (UNHCR) 																			
3.12	No. of Faculty served as Experts, Chairpersons or Resource Persons during July 1, 2016 to June 30, 2017:	107																			
3.13	No. of Collaborations:																				
	International	03	National	12	Any Other	210															
3.14	No. of Linkages created during July 1, 2016 to June 30, 2017:	1252																			
3.15	Total Budget for Research for Current Year in Lakhs :																				
	From Funding Agencies	From Management of University / Institute			Total																
	₹ 2,15,43,011/=	₹ 6,28,86,240/=			₹8,44,29,251/=																
	Note: The financial data is for the period of April 01, 2016 to March 31, 2017.																				
3.16	No. of Patents Filed during July 1, 2016 to June 30, 2017:	03																			
	No. of Patents Published during July 1, 2016 to June 30, 2017:	02																			
	No. of Patents Granted during July 1, 2016 to June 30, 2017:	01																			
3.17	No. of Research Awards / Recognitions received by Faculty and Research Fellows of the University during July 1, 2016 to June 30, 2017:																				
	<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>32</td> <td>09</td> <td>13</td> <td>05</td> <td>05</td> <td>00</td> <td>00</td> </tr> </tbody> </table>							Total	International	National	State	University	District	Institute	32	09	13	05	05	00	00
Total	International	National	State	University	District	Institute															
32	09	13	05	05	00	00															
3.18	No. of Faculty from the Institution who are Ph. D. Guides:																				
	93																				
	Students Registered under Ph. D. Guides:																				
	289																				
3.19	No. of Ph.D. Awarded to the Faculty from the Institution:																				
	09																				
3.20	No. of Ph.D. Research Scholars receiving the Fellowships from NU:	29																			
	No. of Ph.D. Research Scholars receiving the Fellowships from other Agencies:	39																			
	No. of PG students receiving the Fellowships from other Agencies:	15																			
	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	04	International Level	--													

3.22	No. of Students Participated in NCC events:							
	University Level	17	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 July 1, 2016 to June 30, 2017					
	Institute Forum		48					
	NCC		00					
	NSS		46					
	Any Other		01					
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"> • Nirma VolunTeaching Movement (NVM): Organized camp to create awareness regarding “Health & Hygiene” for the rural area Miroli. Students carried out educational talks, games, poster and chart display, crossword game etc. for the rural children. • More than hundred students completed the course “RIO+23 WHS India Certification Program” offered by the IARC (Indian Astrobiology Research Centre). • I²L club organized MUSKAAN event and distributed books and cloths in slum area. • Project is taken up to develop Android Application for the Akshaypatra Foundation, Bhadaj, Ahmedabad to optimize their distribution work. • Students of the NSS and YouNeed organized following events/activities: <ul style="list-style-type: none"> – Visited Old age home –Jivan Sandhya during July 2016 – An event Prayas-A Fund Rising Event during July 2016 – Rakhi Bazar during August 2016 to help under privileged children in preparation and selling of Rakhi – An awareness event called ‘Food Waste Awareness Campaign’ during August 2016 – Visited ‘Mother Teresa Orphanage’, during August 2016 – An event ‘Tribute to Sweepers’ to support a project ‘Swachh Bharat’- Initiated by the Government of India – A Traffic Control Awareness Program during September 2016 – Visited Prakash School (Specially abled Children school) during Sept 2016 							

		<ul style="list-style-type: none"> - Annual function for Blind People Associations during September 2016 - Shiksha-An education camp for slum area kids - Walk for Vision-Mass awareness campaign for eye during Oct 2016 - Cloth collection and distribution at Ahmedabad streets during January 2017 - Special Olympics-fun game for special kids with intellectual disabilities during Feb 2017 - Food Saving Campaign at Gurudwara during March 2017 • ACES worked as a part of a campaign and educated people on “How to use cashless payment facilities” on January 26, 2017. • Student Association of Civil Engineering visited Blind Peoples Association (BPA) at Vastrapur on 30/07/2016. • Organized road safety and traffic awareness programme and quiz competition for students on November 15, 2016. • Nanhi Udan was organized on 06/3/2016 where in students spent fun time with sixty mentally retarded students. • Around seventy five students visited Hiramani old age home October 11, 2016 and spend quality time with the elders. • Electrical Engineering Students Association organized the following activities: <ul style="list-style-type: none"> - The kids of labourers working at Nirma University construction site were invited. The University students helped them to learn new things, develop good habits and importance of hygiene and education. - One-day workshop for the students of ITI, Kubernagar on March 04, 2017 and briefed them about current transformer, working of Buckholz relay and experimental session on same. <p><u>Institute of Management</u></p> <ul style="list-style-type: none"> • 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. • <i>Saral</i> - is an initiative at the Institute of Management towards spreading of knowledge and education among the children of construction labourers. <p><u>Institute of Pharmacy</u></p> <ul style="list-style-type: none"> • Visited Akshaypatra Foundation on 23/07/2016. • Conducted one-day workshop on the NSS activities on 30/7/2016. • Arranged awareness program on Hygiene on 30/07/2016. • Arranged following awareness programmes at Jamyatpura Village <ul style="list-style-type: none"> - Importance of Education on 20/08/2016. - Food and Nutrition on 27/08/2016 - Health and Hygiene on 10/09/2016 - Malaria and Dengue on 24/09/2016 - Importance of Sports on 15/10/2016
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	<ul style="list-style-type: none"> - Cleanliness on 19/11/2016 • Conducted plantation drive at Godrej Garden City on 21/08/2016. • Organized expert lecture by Piramal Foundation for ‘Social Entrepreneurship’ on 03/09/2016. • Interaction with school children and kit distribution on 03/12/2016. <p><u>Institute of Science</u></p> <ul style="list-style-type: none"> • Institute Students’ Association contributed Rs.11, 615/- for National Defence Fund. • Distributed clothes, toys, food, etc. to the needy families in and around Nirma University campus to celebrate Christmas. • Prepared e-books and audio books for the visually challenged persons. • Conducted workshop on DAISY (Digital Accessible Information System) software and related reading material to the students. • Students collected and distributed used spectacles, extra frames. <p><u>Institute of Law</u></p> <ul style="list-style-type: none"> • The Institute in association with South Asian Institute of advanced legal and human rights studies and Centre for Social Justice organized following programmes: <ul style="list-style-type: none"> - 4-days training of trainers for the capacity building of para legal. - 3-days Law Appreciation Programme for para Legal with more than 5 years of experience. <p><u>Institute of Architecture and Planning</u></p> <ul style="list-style-type: none"> • Conducted extension activity in terms of social work by 79 students of Semester II, B. Arch. • Carried out extension activity in association with Gujarat Vidyapith on 09/02/2017 at Dandi Beach, District Navsari by 20 students of Semester II of B. Plan.
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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="5">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>05</td> <td>-</td> <td>05</td> </tr> <tr> <td>No. of important equipment purchased (\geq 1 lakh) during the current year.</td> <td>280</td> <td>30</td> <td>310</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	05	-	05	No. of important equipment purchased (\geq 1 lakh) during the current year.	280	30	310			
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No. of important equipment purchased (\geq 1 lakh) during the current year.	280	30		310																										
	<p>*Note: During the assessment period, a few class/tutorial rooms were renovated. A big multi-storied building comprising class-rooms, faculty rooms, cafeteria, auditorium, student facilities, etc. is under construction.</p>																													

4.2	<p>Computerization of Administration and Library:</p> <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. • Resource booking System for various resources of university like auditorium, computer centre, boardroom etc., • MIS has been procured and different modules related to administration are in the process of implementation. • KOHA (open source software) is successfully in use all the libraries of the constituent institutes. • Library has revamped User Visit Software with new features wherein useful statistics for monitoring and evaluating library usage can be obtained • NU Library app has been developed for android mobile users. This app facilitates resource searching, access new arrival book list, current content pages of print periodical, download exam papers and newspaper clippings (Nirma News), access e-Journals through Remote log in and contact to the Library Staff for any query and help. 																																																																					
4.3	<p>Library Services:</p> <table border="1" data-bbox="459 1045 1404 1486"> <thead> <tr> <th rowspan="2">Particulars</th> <th colspan="2">Existing</th> <th colspan="2">Newly added (July 01, 2016 to June 30, 2017)</th> <th colspan="2">Total</th> </tr> <tr> <th>No.</th> <th>Value (in ₹)</th> <th>No.</th> <th>Value (in ₹)</th> <th>No.</th> <th>Value (in ₹)</th> </tr> </thead> <tbody> <tr> <td>Text Books</td> <td>96033</td> <td>39657267.08</td> <td>3422</td> <td>30,50,755.92</td> <td>99455</td> <td>4,27,08,023.00</td> </tr> <tr> <td>Reference Books</td> <td>14556</td> <td>45808774.54</td> <td>734</td> <td>18,90,369.47</td> <td>15290</td> <td>4,76,99,144.01</td> </tr> <tr> <td>e-Books</td> <td>729</td> <td>285518.00</td> <td>220</td> <td>--</td> <td>949</td> <td>2,85,518.00</td> </tr> <tr> <td>Journals</td> <td>643</td> <td>2600934.46</td> <td>636</td> <td>27,02,459.00</td> <td>636</td> <td>27,02,459.00</td> </tr> <tr> <td>e-Journals</td> <td>18706</td> <td>16230051.32</td> <td>18741</td> <td>1,76,50,753.00</td> <td>18741</td> <td>1,76,50,753.00</td> </tr> <tr> <td>Digital Database</td> <td>24</td> <td>3534992.00</td> <td>22</td> <td>36,77,179.00</td> <td>22</td> <td>36,77,179.00</td> </tr> <tr> <td>CD & Videos</td> <td>1973</td> <td>2143681.76</td> <td>--</td> <td>--</td> <td>1973</td> <td>21,43,681.76</td> </tr> <tr> <td>Others</td> <td>3214</td> <td>3005475.23</td> <td>93</td> <td>52,871.00</td> <td>3307</td> <td>30,58,346.23</td> </tr> </tbody> </table>	Particulars	Existing		Newly added (July 01, 2016 to June 30, 2017)		Total		No.	Value (in ₹)	No.	Value (in ₹)	No.	Value (in ₹)	Text Books	96033	39657267.08	3422	30,50,755.92	99455	4,27,08,023.00	Reference Books	14556	45808774.54	734	18,90,369.47	15290	4,76,99,144.01	e-Books	729	285518.00	220	--	949	2,85,518.00	Journals	643	2600934.46	636	27,02,459.00	636	27,02,459.00	e-Journals	18706	16230051.32	18741	1,76,50,753.00	18741	1,76,50,753.00	Digital Database	24	3534992.00	22	36,77,179.00	22	36,77,179.00	CD & Videos	1973	2143681.76	--	--	1973	21,43,681.76	Others	3214	3005475.23	93	52,871.00	3307	30,58,346.23
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4.4	<p>Technology Up gradation (overall):</p> <ul style="list-style-type: none"> • At Institute of Technology, 217 computers and 06 Computing Labs are added. • The bandwidth of the Internet services is increased to 332 Mbps. • The Institute of Architecture & Planning has purchased 05 Mac Books and 02 Laptops, purchased Arc GIS Software, purchased Vector Works. 																																																																					
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 days Training was arranged for the Computer Pperator cum Programmers and other Laboratory Staff for enhancing their skills in the different areas of computer engineering. Training program for Office superintendent, Assistant Registrar and equivalent was organized. They were given explanation about use of different ICT tools in university administration work. • A week long hands-on session by NMORE on SPSS for MBA programmes • Microsoft Excel workshop by The E-Excel for MBA programmes. • Institute of Law conducted programmes on Google Class room, User information for MIS, Blog creation and course website, Moodle Training, Turnitin software training and training on Scopus • Institute of Pharmacy conducted various programmes titled - <ul style="list-style-type: none"> – “Search Strategies to access pin-pointed information form subscribed e-content”. – “Awareness Programme for Creating Citation & Bibliography using Zotero citation management software”. – “Training of Mendeley - Reference Management Open Source Software”.
4.6	Amount Spent on Maintenance:
	ICT (Computers): ₹22,89,583/=
	Campus Infrastructure and facilities: (Including Buildings and Furniture) ₹ 4,21,27,738/=
	Equipment: ₹ 6,26,096/=
	Others: ₹68,61,472/=
	Total ₹5,19,04,889/=
Note: The financial data is for the period April 01, 2016 to March 31, 2017.	

CRITERION – V

5.	Student Support and Progression:
5.1	<p>Contribution of IQAC in Enhancing Awareness about Student Support Services:</p> <p>The following Student Support Systems are established in various institutes and time to time, activities are arranged under each Cell.</p> <ul style="list-style-type: none"> • Grievances Redressal Cell: Major objective of the Cell is to make all efforts to ensure transparency in all the activities at different stages. Redressal of the grievances of students is done through this cell. • Anti-ragging Activity Cell / Anti-Drug Squad: To prevent any activities related to ragging of students. To take action against any such event. To keep a vigil watch in the campus about curbing the use of drugs by the students especially within the campus. • Women Development Cell: To provide and maintain a dignified, congenial working environment for women employees (including teaching, non-teaching and contractual workers) and students, where they

	<p>can work, study and explore their potential to the fullest.</p> <ul style="list-style-type: none"> • Prevention of Sexual Harassment Cell (Cell is working at University Level): To prevent discrimination and sexual harassment against women. To lay down procedures for the prohibition, resolution, settlement and prosecution of acts of discrimination and sexual harassment against women, by the students and the employees. Committee deals with cases of discrimination and sexual harassment reported by teaching/non-teaching member/student. • Gender Sensitization Cell: Creating awareness regarding gender biasing. Provide assistance to all through conducting workshop and awareness drives. • Women in Engineering Cell: To provide platform to women in Engineering related issues. Conduct various activities related to same. 																																																				
5.2	<p>Efforts made by the University for Tracking the Progression:</p> <ul style="list-style-type: none"> • To track the student progress use of social media in the form of LinkedIn, Facebook was done. • Exit form is prepared which is filled by the student at the end of B Tech/ M Tech programmes. • Continuous evaluation of the students. • Continuous feedback form various stack holders. • Effective counselling and continuous monitoring is done for the identified slow learners for each semester. At Institute of Management, regular meetings are conducted with academically weak students. 																																																				
5.3	<p>(a) Total Number of Students:</p> <table border="1"> <thead> <tr> <th>UG</th> <th>PG</th> <th>Ph. D.</th> <th>Others #</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>5798</td> <td>1769</td> <td>331</td> <td>-</td> <td>7898</td> </tr> </tbody> </table> <p>(b) No. of Students Outside the State:</p> <p style="text-align: center;">2285</p> <p>(c) No. of International Students:</p> <p style="text-align: center;">101</p> <table border="1"> <thead> <tr> <th>Men</th> <th>Women</th> </tr> </thead> <tbody> <tr> <td>No.: 5461</td> <td>No.: 2437</td> </tr> <tr> <td>%: 69.14</td> <td>%: 30.86</td> </tr> </tbody> </table> <p>Category wise Students:</p> <table border="1"> <thead> <tr> <th colspan="6">Last Year (2015-16)*</th> <th colspan="6">This Year (2016-17)*</th> </tr> <tr> <th>General</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>Physically Challenged</th> <th>Total</th> <th>General</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>Physically Challenged</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2092</td> <td>68</td> <td>43</td> <td>270</td> <td>03</td> <td>2476</td> <td>2195</td> <td>69</td> <td>38</td> <td>293</td> <td>02</td> <td>2597</td> </tr> </tbody> </table>	UG	PG	Ph. D.	Others #	Total	5798	1769	331	-	7898	Men	Women	No.: 5461	No.: 2437	%: 69.14	%: 30.86	Last Year (2015-16)*						This Year (2016-17)*						General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total	2092	68	43	270	03	2476	2195	69	38	293	02	2597
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	*Based on new admission data	
	Demand Ratio: 1:10^{&}	Dropout: 6 %
	&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"> • At Institute of Science, students are provided with study material for CSIR-NET related preparation in the library. • The Institute of Pharmacy provides Pre-GPAT coaching and examination to the B.Pharm. students. • Institute of Law organized awareness programme for students to know about the Company Secretary Profession and Civil Services. • The Centre for Continuing Education conducts coaching for GATE Examination. • At Institute of Technology, each student chapter/associations of department also organize similar activities during their technical events to encourage student awareness and participation in similar activities. • 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 July 1, 2016 to June 30, 2017:	1124
5.5	No. of Students Qualified in these Examinations:	
		During July 1, 2016 to June 30, 2017
	NET	002
	SET/SLET	000
	GATE	078
	GPAT	018
	CAT	302 (Appeared)
	PG-CLAT	025
	IAS/IPS	001
	State PSC	000
	UPSC	001
	Any Other	107
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>Student Counselling</p> <ul style="list-style-type: none"> • Mentor is appointed batch wise and they carry out Counselling/mentoring of students twice in each Semester. • During Mentoring, the problems related to academic /Career Choice/ Placement/ Competitive Exams/ Personal problems are discussed and students are given appropriate suggestions. • At the end of every Semester, Mentor's feedback is taken from the students. The Mentor's feedback is analysed and its report is submitted to HoD. <p>Career Guidance:</p> <ul style="list-style-type: none"> • Resume Development Workshop • Group Discussion & Personal Interview Workshop • Mock Coding Test • Mock Interviews Preparation, Panel Discussion on Careers in various domains 												
		<table border="1"> <tr> <td data-bbox="428 913 889 945">No. of Students Benefitted:</td> <td data-bbox="889 913 1430 945">All students</td> </tr> </table>	No. of Students Benefitted:	All students										
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5.7		<p>Details of Campus Placement:</p> <table border="1"> <thead> <tr> <th colspan="2">On Campus</th> <th colspan="2">Off Campus</th> </tr> <tr> <th>Number of Organizations Visited</th> <th>Number of Students Participated</th> <th>Number of Students Placed</th> <th>Number of Students Placed</th> </tr> </thead> <tbody> <tr> <td>279</td> <td>1145</td> <td>777</td> <td>84</td> </tr> </tbody> </table>	On Campus		Off Campus		Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed	279	1145	777	84
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279	1145	777	84											
5.8		<p>Details of Gender Sensitization Programmes:</p> <ul style="list-style-type: none"> • The University level Women Development Cell (WDC) coordinates the events on gender sensitivity related issues. • Women's Day Celebration was organized by WDC on 08/03/2017. • All First year students and faculties has attended a "Halla Bol" Season - II regarding awareness generation drive for Women Safety Security, Self Defense, Cyber Safety for Women, Drug Free and Healthy Life by Madam Geeta Johri, Senior IPS Officer and Madam, Ruzan Khambhata, Wajra O Force Empowerment Foundation as a keynote speaker on 12/08/16 organized by WDC, Nirma University. • Dr. Niyati Acharya has delivered a talk on awareness, objectives and activities of Woman Development Cell during Orientation programme 26/10/16 for New Entrants of B. Pharm/M. Pharm. • Dr. Niyati Acharya has organized a Workshop on "Self-defense for Girl students" for Semester-II of B.Pharm., M. Pharm., and Newly admitted Ph.D. Girl students on 17/01/17 by inviting the experts from Rishiraj 												

	<p>Kung Fu Karate Foundation.</p> <ul style="list-style-type: none"> Lecture on 'Women Architecture and Modernism: A Journey from the Personal to the Collective' by Prof. Madhavi Desai was organised at IAPNU on 1 April 2017. 																								
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>489</td> </tr> <tr> <td>National Level</td> <td>004</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>3011</td> </tr> <tr> <td>National Level</td> <td>---</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>184</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>59</td> </tr> <tr> <td>National Level</td> <td>--</td> </tr> <tr> <td>International Level</td> <td>--</td> </tr> </table>	University Level	489	National Level	004	International Level	---	University Level	3011	National Level	---	International Level	---	University Level	184	National Level	---	International Level	---	State/ University Level	59	National Level	--	International Level	--
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		Number of students who received International / National recognitions including DST-Fellowship, CSIR-Fellowship and UGC Fellowship	16	₹ 46,69,564/=
		Note: The financial data is for the period April 01, 2016 to March 31, 2017.		
5.11	Student Organised / Initiatives:			
	Fairs:			
			During July 1, 2016 to June 30, 2017	
		State/ University Level	31	
		National Level	26	
		International Level	00	
	Exhibition:			
			During July 1, 2016 to June 30, 2017	
		State/ University Level	08	
		National Level	02	
		International Level	00	
5.12	No. of Social Initiatives Undertaken by the Students:			
	38			
5.13	Major Grievances of Students (if any) Redressed:			
	<ul style="list-style-type: none"> No major grievances received from the students during July 01, 2016 to June 30, 2017. 			

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 used for student registration, maintaining academic & attendance records of the students, student satisfaction survey, maintaining personal information of the students, etc. • Modules related to the student fee management, university account management, fixed asset management, human resource management, purchase and inventory, student training and placement are planned to be added in the Management Information System.
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 • In addition to the above level of audits, University has planned level (iv) of audit consisting of external agency/experts comprised of a visionary / relevant academicians / researchers and (or) domain experts. The external audit team will appraise the good practices, highlight the strengths, guide to overcome weakness (es) and suggest improvements in the teaching – learning, academic and administrative processes, for the constituent institutes. The audit panel will conduct audit on various parameters, usually based on the criteria set by national accreditation agencies, bodies like the UGC, NAAC, NBA, KCG etc. The Committee shall also see the compliance by the institute (or department) to the findings of the previous committee visit (University level audit or accreditation body) and the progress after the previous committee visit. • Student centric learning is implemented through a well-developed system of Outcome Based Education (OBE). • Formal as well as informal student feedback system is taken to obtain their views about their academic, co-curricular and campus life experiences. • There is an academic review to monitor the conduction of course every four weeks during the semester in majority of the institutes. • There is a student attendance review every four weeks during the semester in majority of the institutes. Parents of the students having less attendance are intimated the details of the students' attendance.

		<ul style="list-style-type: none"> • Rigorous faculty training programmes/workshops/seminars/expert lectures are conducted to improve the quality of pedagogy/teaching. • Faculty members are encouraged to use the ICT in teaching-learning process by creating course web-sites, blogs, conducting online tests, use of google class-room etc. • Faculty members and students undergo various MOOCs (Massive Online Open Courses) on regular basis. • Guest lectures/Expert lectures are organized for the students on regular basis. • Industrial/Field visits are organised for students to understand and learn from real world experiences. • Arrangement of sessions on mock placement interviews/personality development/life skills are done for final year students • Promotion of Interdisciplinary student projects is done in majority of the institutes. • Summer internship programs for students are done in majority of the institutes. • Consistent and continuous assessment of students' class and laboratory work is carried out. • Courses like Language Learning, Ethics and Values, Creativity and Innovation, Critical Thinking are taught through role plays, dramas, and case study.
		<p>6.3.3 Examination and Evaluation:</p> <ul style="list-style-type: none"> • Continuous Evaluation system is adopted to appreciate the formative assessment of the students. • The University has a very systematic Manual for Conduct and Evaluation of all the Examinations. • Students are provided 'Student Handbook', which includes all the rules and regulations of examination conduction and assessment. • For each subject /course of semester end examination, the Paper Setters submit two sets of the question papers and out of these two sets, the Dean and the Executive Registrar pick up any one and the same is used for the purpose of the respective examination. • 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 junior and senior supervisors, observers are also appointed by the university. • Provision is also made to show the assessed answer books of all the examinations to the concerned students. • In order to check the quality/language/format of the question papers, all the question papers are reviewed by a separate committee and the reports are presented during the Board of Study Meeting. • Rubrics are prepared for the evaluation of different components of a course and conveyed to the students.

6.3.4 Research and Development:

- For effective planning, implementation, continuous monitoring and review of research related activities, a structured Section ‘Directorate of Research and Innovation’ is planned and approved by the authorities.
- A ‘Research Log’ for faculty members is created at University level to keep records of ongoing research activities at the University.
- Research and Development is given top priority in the perspective planning of the University.
- University has a very systematic ‘Research Policy’ which provides guidelines for all research related activities.
- The University provides money to faculty members for minor research projects and funding up to 30 Lakhs for major research projects.
- The University provides financial support to faculty for attending national and international conferences/workshops/training programs/seminars abroad/within India.
- University encourages faculty members to undertake collaborative/sponsored/interdisciplinary projects within/outside country.
- Majority of the Institutes of the University regularly organize international/national conferences to provide a platform to researchers to present their research work and collaborate.
- Availability of modern library facilities including e-journals and other latest Learning Resources to the faculty/students within/outside campus have provided great support to Ph.D., PG, UG students and faculty for conducting research.
- The University has introduced a scheme of Awards & Incentives for faculty members to appreciate their outstanding contribution in research.
- Intensive Research Orientation programmes/Workshops/Seminars are organized on a regular basis for the faculty members.
- The University provides funding to students to take their innovative ideas to implementation through ‘idea lab’ scheme.
- Post graduate students are encouraged to publish their thesis work in conference/reputed journals.
- Research (Ginger) groups consisting of faculty and student having same research interests are formed to carry out collaborative research.
- Some of the institutes have department level research advisory committees to strengthen research activities and to integrate it with teaching-learning. The said committees scrutinize faculty research proposals to be submitted to funding agencies and monitor the progress of funded projects/consultancy projects.
- Pedagogy sessions are arranged in the department to discuss latest trends in research.
- Emphasis is being given on good quality publications i.e. good impact factor / Scopus journals.
- Faculty members who have not joined the Ph.D. program are motivated to register for the Ph.D. program.

6.3.5 Library, ICT and Physical Infrastructure / Instrumentation:**Library:**

- The University has a Library Council as an Advisory Committee at the University level for the purpose of smooth functioning, improvement and coordination amongst all the libraries and the management.
- All the constituent institutes have Library Committees for smooth functioning and for regularly reviewing the growth of the libraries.
- The Library Council and the 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 to staff/students of the University.
- Every year books, journals, print periodicals, magazines, reference books, online journals are added to the library repository.
- Library has launched a mobile application for remote access of Koha software to facilitate the users to view/issue/manage digital resources and e-resources.
- Library staff regularly arranges book display on special occasions, TED Talks for the faculty members, library orientation program for the newly admitted students and newly joined faculty members, book review sessions, book exhibition, storytellers' sessions, IEEE webinars, etc.
- Book bank facility is provided to the needy meritorious students of some of the Institutes.
- Library staff publishes the list of best users of the library (student/faculty).

ICT:

- The University has a comprehensive IT Policy regarding all IT infrastructure, service, security, usage, implementation 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.
- The University also promotes the usage of free open source software
- Institute of Technology has a committee to promote the usage of open source software.
- A dedicated optic fibre leased line and Wi-Fi hotspots round the clock provide Internet connectivity on the campus. In the current year, 18 new Wi-Fi access points in the campus have been added for increasing the coverage of Wi-Fi facility.
- Majority of the classrooms of the University are ICT-enabled with various audio visual and Internet facilities.
- Mobile application for usage of library resources has been developed for android mobile users. This application facilitates resource searching,

		<p>accessing list of newly arrived books, current content pages of print periodicals, facility to download exam papers and newspaper clippings (Nirma News), accessing e-Journals through remote log in and contacting library staff.</p> <ul style="list-style-type: none"> • Library is providing Remote-Login facility to faculty/students to access digital resources from their home through Remote Access Software. <p><u>Physical Infrastructure:</u></p> <ul style="list-style-type: none"> • The University follows 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. University has appointed a campus manger to monitor the ongoing activities of the campus. • The University allocates separate budget for the maintenance of infrastructure and facilities. There is a maintenance group within the Estate Department. • New IP surveillance camera installed in parking area and entrance of each block to enhance the security. • Majority of the classes are equipped with audio-visual and Internet facility for effective lecture delivery. <hr/> <p>6.3.6 Human Resource Management:</p> <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. • The University regularly organizes various staff development programmes, including Induction Training, Orientation Programme, Workshops, Seminars, 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 like awards and incentives. • The University follows standard and transparent staff recruitment procedure. • Advertisements for staff recruitments are given in leading national level newspaper to attract staff from across the country. • Training programs for non-teaching staff members are organized regularly.
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6.3.7 Faculty and Staff Recruitment:

- There are well defined and transparent norms for faculty and staff recruitment.
- 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.

6.3.8 Industry Interaction / Collaboration:

- 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.
- At the department levels there are faculty members appointed as III Cell coordinators to coordinate with the III cell for Industry Interactions/student placement activities.
- The University encourages its faculty members to undertake consultancy work from the industry. There is a systematic policy to undertake any consultancy assignment.
- Institute of Technology had organized Industry Academia meet, where forty three industry delegates visited the Institute for panel discussion.
- Workshops by Industry experts from Goldman Sachs and TCS were organized for the students of Institute of Technology.
- Regular visits of faculties are arranged to industries for student project follow ups and campus placements.
- Faculties undergo the industrial trainings on regular basis.
- Expert lectures from industries are conducted regularly.
- Industry experts are part of various academic/research/conference Committees.
- Institute of Technology has MoU with Mitsubishi electric India Pvt. Ltd. (MEI) under which the Institute has received factory automation kits worth Rs. 34 Lacs from MEI.
- Institute of Pharmacy has signed MoU with CPC Ltd. and Finecure Pharmaceuticals Ltd. for various areas of collaborations like industry visits, training and placement support, expert lectures, etc.

		<p>6.3.9 Admission of Students:</p> <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, regional newspapers and Institute web-site. • Brochures of the programmes are prepared that consist of eligibility criteria and the process of admissions. Brochures are distributed along with application forms. • 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 list of students admitted to various programmes is displayed on the web-site. • 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. 						
	<p>6.4</p>	<p>Welfare Schemes for:</p> <table border="1"> <tr> <td data-bbox="440 1062 932 1350">Teaching</td> <td data-bbox="932 1062 1421 1350"> <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 data-bbox="440 1350 932 1556">Non-Teaching</td> <td data-bbox="932 1350 1421 1556"> <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 data-bbox="440 1556 932 1761">Students</td> <td data-bbox="932 1556 1421 1761"> <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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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 							
	<p>6.5</p>	<p>Total Corpus Fund Generated:</p> <p style="text-align: center;">₹ 10 Crores</p>						

6.6	Whether Annual Financial Audit has been done: <p style="text-align: center;">Yes</p>																			
6.7	Whether Academic and Administrative Audit (AAA) has been done? <table border="1" data-bbox="550 390 1274 617"> <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>Yes</td> <td>External Experts</td> <td>Yes</td> <td>IQAC</td> </tr> <tr> <td>Administrative</td> <td>Yes</td> <td>External Auditors</td> <td>Yes</td> <td>Internal Auditors</td> </tr> </tbody> </table>	Audit Type	External		Internal		Yes/No	Agency	Yes/No	Authority	Academic	Yes	External Experts	Yes	IQAC	Administrative	Yes	External Auditors	Yes	Internal Auditors
Audit Type	External		Internal																	
	Yes/No	Agency	Yes/No	Authority																
Academic	Yes	External Experts	Yes	IQAC																
Administrative	Yes	External Auditors	Yes	Internal Auditors																
6.8	Does the University/ Autonomous College declares results within 30 days? <table border="1" data-bbox="440 722 1421 800"> <tr> <td>For UG Programmes</td> <td>Yes</td> </tr> <tr> <td>For PG Programmes</td> <td>Yes</td> </tr> </table>	For UG Programmes	Yes	For PG Programmes	Yes															
For UG Programmes	Yes																			
For PG Programmes	Yes																			
6.9	What efforts are made by the University/ Autonomous College for Examination Reforms? <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. • Institute of Law has constituted Appeal Committee to consider the grievances of students related to continuous evaluation/all examinations. 																			
6.10	What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? <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	Activities and Support from the Alumni Association: Alumni Associations are actively involved in various activities at the																			

	<p>University, some of them are listed below:</p> <ul style="list-style-type: none"> • Career/Placement guidance to the students. • Help in sensitizing the students to industry needs, best practices in Industry, summer internship programs, etc. • Alumni members provide feedback on syllabus updating. • Representatives of Alumni Associations participate as members of IQAC. • Alumni regularly participate in the conferences, panel discussions, alumni meets of their Institute and discuss their experiences with the faculty members. • Representatives of the Institute of Management alumni participate in selection of the students for admission in the MBA programme. • Alumni Association of the Institute of Technology publishes a magazine SETU every year. Scholarships are given by the Institute of Technology Alumni Association. • Financial assistance for students' participation in national/state level paper presentation is provided by the Pharmacy Alumni Association. • Felicitation of toppers by the Institute of Pharmacy Alumni Association. • Institute of Pharmacy has started e-Newsletter (Digital Version) to share the alumni achievements to students, alumni members and faculty members. • Alumni members share vacancy information at their organizations to support placement of existing students through AlmaConnect/email/whatsapp. • Alumni members help in the activity of arranging campus, industrial training, industrial visits and placement of existing students. • Alumni Members also support the final year students for preparation of National Level Entrance/Competitive Exams. • Alumni Members are involved as the Invited Members of the different Boards of Studies. • Alumni Meets are also arranged outside the country/campus of University.
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. • Parent Teacher meetings are organized to discuss the student progress at different institutes.
6.13	<p>Development Programmes for Support Staff:</p> <p>The support staffs are 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

		<p>and Computer Programmers during August 08 - 10, 2016.</p> <ul style="list-style-type: none"> • Intensive training programme for Improvement of English for Office staff for ten days. • Training programme for the Office Assistants and staff of equivalent cadre during November 21-26, 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"> • Majority of the circulars for University notifications/office orders/office notices/student notices are circulated through e-mails to avoid excessive usage of paper. • 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. • A sewage treatment plant is going to be erected in the campus 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. • There are five percolation wells constructed in campus to percolate collected water from campus. • Electrical energy conservation is being carried out through various measures like implementation of Heat Ventilation and Air Control. • 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.

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. • Training programmes for the staff (Laboratory Assistants, Computer Operators, Office Superintendents, Office Assistants, etc.) and faculty members. • Use of social networking for better visibility and to improve the peer perception. • Use of blog, course web page and blended learning for the students. • Concept of minor specialization to the students to enhance the knowledge and acceptance in a specific field. • Rules for preventing plagiarism.

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"> • Initiate the process for preparing ten-year Perspective Plan of the University and constituent institutes. • The Core Value Framework of the University was finalized, approved by the competent bodies and notified. • A structured Section - Directorate of Research & Innovation was approved by the competent bodies of the University for planning, implementation, and continuous monitoring of research related activities. • The Management Information System (MIS) was implemented. • The guidelines for the Academic Audit by external experts/ agency were finalized and approved. • Implemented the scheme of Awards and Incentives for the faculty members and staff. • Implemented the scheme of funding to the faculty members for Major Research Projects. • Organized four-week Induction Training, two-week Research Orientation and two-week Orientation Programme for the faculty members of the constituent institutes. • Organized a special English Language training programme for the staff members of the University. • Student Satisfaction Survey was carried out for all the constituent institutes of the University.
7.3	<p>Give two Best Practices of the University:</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 information regarding the need of preservation of the environment, conservation of energy in the form of electricity, water, etc. is disseminated to the students of all the constituent Institutes of the University through following efforts: <ul style="list-style-type: none"> – Environment related courses in the curriculum, – Seminar, Workshops, and Awareness Programmes, – Plantation of normal and medicinal plants, etc.
7.5	<p>Whether environmental audit was conducted?</p> <p>The University endeavours to maintain an environmentally sustainable campus. The campus houses a healthy green cover with wide zones allocated for trees, shrubs and gardens. 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 has significantly improved.</p>
7.6	<p>Any other relevant information the institution wishes to add:</p>

	<p>The University and three constituent institutes participated in the NIRF ranking introduced by the MHRD and obtained commendable rankings at national level.</p> <ul style="list-style-type: none"> • Nirma University 75th Rank. • Institute of Pharmacy 16th Rank. • Institute of Management 31st Rank. • Institute of Technology 79th Rank.
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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 finalize the Perspective Plan. • To establish the Directorate of Research & Innovation and to implement the Research Policy. • To organize faculty development programmes on a larger scale with themes related to research, use of ICT tools in teaching learning, etc. • To strengthen collaborations with the international institutes of repute. • To establish a separate dedicated center for quality assurance and academic development. • To prepare Course Design Policy. • To apply for FIST (Fund for Improvement of S & T Infrastructure) grant of the DST by constituent institute of the University. • To increase publications in high impact factor journals. • To start a programme for collaboration with industry and academic institution at global level
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Dr. Dhaval Pujara
Name & Signature of IQAC Coordinator

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

LIST OF ANNEXURE

ANNEXURE - 1	Workshops / Seminars Organized by the IQAC
ANNEXURE - 2	Analysis of Feedback received from Various Stakeholders
ANNEXURE - 3	Salient Features of Syllabi Updation
ANNEXURE - 4	Innovative Processes adopted by the Institution in Teaching and Learning
ANNEXURE - 5	Course/Programme wise Distribution of Pass Percentage
ANNEXURE - 6	Details of Externally Funded Major / Minor Research Projects
ANNEXURE - 7	Best Practice – I and II

ANNEXURE 1

Workshops / Seminars Organized by the IQAC
(Only quality related)

Sr. No.	Title / Theme of the Programme	Programme Level	Dates of Programme
1.	NAAC Sponsored National Seminar on, 'Quality Initiatives: Gateways and Pathways to Institutional Excellence'	National	03/03/2017 to 04/03/2017
2.	Training Programme On, 'Building a Better Teacher'	National	19/08/2016 to 20/08/2016
3.	Training Programme on, 'Honing Research Publication Skills'	National	07/10/2016 to 08/10/2016
4.	Sixth Annual Conference on, 'Quality Management'	International	26/09/2016 to 27/09/2016

ANNEXURE 2

Analysis of Feedback received from Various Stakeholders

A. Brief Report on Feedback obtained from Alumni

- The alumni of the Institute of Technology found the latest curriculum of the institute very effective and meeting the demand of the industry.
- Most of the alumni members have given feedback related to addition of recent topics in curriculum in respective branches.
- It was suggested to arrange seminars for entrepreneurship development.
- More hands-on exercises should be included in the laboratory curriculum to make the course more interesting and relevant. More industrial visits should be planned to provide better practical exposure for the relevant areas of automation.
- The alumni of the Institute of Management suggested increasing the frequency of rural projects. They also suggested including more interactive cases involving industry problems.
- The alumni of the Institute of Law emphasized more on the basic understanding and applications of law.
- Majority of the alumni members have appreciated the regular 'Alumni Meets'.

B. Brief Report on Feedback obtained from Parents

- In general, the parents have given excellent rating for the curriculum design and teaching learning process, student support mechanism, infrastructure, etc. Parents have rated Attendance, Discipline and Punctuality regulations of the University as the highest. They have appreciated the conducive environment of Nirma University for overall development of the students.
- Parents suggested including a course on 'Professional Etiquettes' and one foreign language course in the syllabus.
- In order to increase the employability of the students, training programmes / workshops should be arranged on soft skill topics like, interview skills, public speaking, leadership & team building, with the support of industries/ experts.
- The parents suggested to give more emphasis on project based learning / experiential learning. Also, the institutes to focus more on student placements in core industries /companies.
- In case of Institute of Law, the institute mentorship program was highly appreciated by parents.

C. Brief Report on Feedback obtained from Employers

- In Engineering, the curriculum design is very good, but more subjects are to be added in various branches as per the need of Industry. The subjects which are dealing with environment and energy must include more insight into practical and industry related aspects.
- Introduction of mini-projects in early semesters supports the concept of Project based learning. More industrial visits can be planned to provide better practical exposure.
- The employers of the Institute of Management suggested improving the analytical skills of the students. They also suggested more emphasis on data analysis, supply chain, improving communication and presentation skills.

- The employers suggested improving the Communication skills to ensure better job prospects.

D. Brief Report on Feedback obtained from the Students

- Feedback from the student is received regularly through informal feedback, structured feedback, mentoring and interactions.
- Most of the students have expressed satisfaction for overall course structure and appreciated elective choices offered.
- In general, the students from all disciplines have suggested adding recent topics in various courses. The students of Institute of Technology have suggested organizing training for branch specific software.
- 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 including more courses on Management to improve the managerial skills.
- Courses conducted by the Centre for Continuing Education are highly appreciated by the students of Institute of Law.

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"> • Modification in the Teaching & Examination Scheme of a course– ‘Major Project (ME801)’ of Semester-VIII of B. Tech. in Mechanical Engineering. • Modification in the Teaching & Examination Scheme Semester-VI and VII of B. Tech. programmes in Computer Engineering and, Information Technology. • Revision in syllabus of course- ‘System Software’. • Revision in Teaching and Examination Scheme of Institute Electives being offered by the Computer Engineering Department and Information Technology Department to the students of B. Tech. Semester VI/VII (all branches except CE/IT). • Revision in Teaching and Examination Scheme of Semester-VI/VII of B. Tech. programmes in: Semester VI of Chemical Engineering, Semester VII of Instrumentation and Control Engineering Semester VI of Civil Engineering, Semester - VII of Computer Engineering, Semester - VII of Information Technology, Semester VII of Electrical Engineering, Semester.-VI of Mechanical Engineering • Revision in Teaching and Examination Scheme of Semester-VI/VII of Interdisciplinary Minor Specialization in Computer Engineering offered to students of all branches, except B.Tech. (CE/IT). • Revision in Teaching and Examination scheme of Semester-VI and VII of B. Tech. in Electronics & Communication Engineering. • Revision in title and syllabus of a course- Electronics Design Tools and Packages of Semester-IV of B.Tech. in Electronics & Communication Engineering. <p><u>MCA:</u></p> <ul style="list-style-type: none"> • Revision in syllabus of course - Probability, Statistics and Numerical Analysis of Semester-II of MCA. <p><u>M.Tech.</u></p> <ul style="list-style-type: none"> • Introduction of an elective course– ‘Satellite Navigation Systems & Applications’ in M. Tech. EC Eng. • Revision in syllabus of following courses of M.Tech. programme in EC Eng. (VLSI Design). • Offering of a course- 3CS1108-Advanced Computer Networks along with its Syllabus in place of existing course- ‘3CS1101–High Speed Networks’ in Semester-I and revision in Teaching and Examination Scheme of Semester-I of all PG programmes in Computer Science & Engineering.

Institute of Management	<p><u>BBA-MBA:</u></p> <ul style="list-style-type: none"> Swapping of two courses (Financial Services, Taxation) in Semester-V & VI. Revision in Teaching & Examination Scheme of Semester-V & VI of BBA-MBA (Five Year Integrated) programme.
Institute of Pharmacy	<p><u>B.Pharm:</u></p> <ul style="list-style-type: none"> Revision in syllabus of University Elective course- Health and Nutrition. <p><u>M.Pharm:</u></p> <ul style="list-style-type: none"> Revision in Nomenclature and Intake of following specializations of M.Pharm. run under Institute of Pharmacy.
Institute of Science	<p><u>M.Sc:</u></p> <ul style="list-style-type: none"> Revision in syllabus of following courses of M.Sc. programmes. Revision in Teaching & Examination Scheme of Semester-III of M.Sc. in Biotechnology.
Institute of Law	<p><u>LLB:</u></p> <ul style="list-style-type: none"> Revision in syllabus of 'Law of Tort including Consumer Protection and MV Act' of Semester-II in B.A. LL.B. (Hons) and B.Com. LL.B. (Hons.) programmes. Revision of syllabus of 'Money and Capital Market' of Semester-IV of B.Com. LL.B. (Hons.) programme. Introduction of Syllabus of 'Money and Capital Market' in lieu of a course - 'Quantitative Techniques for Decision Making' and revision of Teaching & Examination Scheme of Semester-II of B.A. LL.B. (Hons.) programme. Revision in Teaching & Examination Scheme of Semester-IV of B.A LLB and B.Com. LL.B. programmes. Increase in credit of a course- 'Foreign Language' from existing 2 to 3 credits by way of removing existing course- 'Fundamentals of Public Administration' of 1 credit, Swapping of a course 'Justice–An Introduction' from Semester-III to Semester-IV with 'Law in Changing Society' of Semester-III of B.A.LL.B., Introduction of a course- 'Contract Law-I' along with its syllabus in Semester IV of B.A. LL.B. (Hons) and B.Com. LL.B. (Hons.) programmes. Revision of Teaching & Examination Scheme of of Semester-VIII of B.A. LL.B (Hons.), B.Com. LLB (Hons.) and B.B.A. LL.B. (Hons.) programmes. Introduction of new courses along with syllabus in Semester-VIII of B.A. LL.B (Hons.), B.Com. LLB (Hons.) and B.B.A. LL.B. (Hons.) programmes: Labour and Industrial Law, Institute Elective Courses (Chinese Legal System, European Legal System, American Legal System), Modular Course– Drafting Skills III, Honours Course–III (Election Law, Forensic Science, Patent Drafting and Specification Drafting), Professional Training–II (Judicial Services, Litigation Advocacy, Corporate Professional Training). Revision of syllabus of the courses– (i)'Arbitration, Conciliation & Alternate Dispute Resolution System' (Clinical Course), and (ii)

	<p>‘Taxation Law-II’, to be made effective for the students to be registered in Semester-VIII of B.A. LL.B (Hons.), B. Com. LLB (Hons.) and B.B.A. LL.B. (Hons.) programmes.</p> <ul style="list-style-type: none"> • Revision in title of a course in its syllabus from “Conception of Justice in Eastern and Western Thoughts” to Justice: An Introduction, to be made effective for the students to be registered in Semester-IV of B.A, LL.B. (Hons.) • Revision in courses of Semester-III of B.A.LL.B.(Hons.) and B.Com. LL.B.(Hons.) programmes and revision in Teaching & Examination Scheme • Revision in courses of Semester-V of B.A.LL.B.(Hons.) and B.Com. LL.B. (Hons.) programmes and revision in Teaching & Examination Scheme. • Revision in Syllabus of Courses- (i) “Contract-II”, (ii) “Corporate Law-I”, (iii) “Law of Evidence” and (iv) “Family Law-I”. • Shifting of course “Drafting Skills (Civil Pleading)” from semester-VI to semester-V • Revision in courses of Semester-VII of B.A.LL.B.(Hons.) and B.Com. LL.B. (Hons.) programmes and revision in Teaching & Examination Scheme. • Revision in Syllabus of courses- (i) “Right to Information”, (ii) “Corporate Insolvency” and (iii) “Administrative Law”. • Introduction of a course- “Law and Public Policy”. • Removal of all Institute elective courses from semester-VII and the same shifted to Semester-X. • Revision in Teaching & Examination Scheme and Syllabus of Semester-IX of B.A.LL.B. (Hons.), B.Com. LL.B. (Hons.) and B.B.A.,LL.B. (Hons.) programmes.
<p>Institute of Architecture & Planning</p>	<p><u>B.Arch.:</u></p> <ul style="list-style-type: none"> • Amendment in academic regulation- R.BARC.2 (Annexure-I) of Eligibility Criteria for admission to B.Arch. programme at par with the similar criteria prescribed in the rules by Govt. of Gujarat.
<p>Institute of Commerce</p>	<p><u>B.Com (Hons)</u></p> <ul style="list-style-type: none"> • Revision in the Teaching & Examination Scheme and Syllabus of Semester-I and II of B.Com (Hons.).
<p>Department of Design</p>	<p><u>B. Des.</u></p> <ul style="list-style-type: none"> • Academic Regulation for Bachelor of Design (B.Des.) programme under the Faculty of Design, to be made effective from the Academic Year 2017-18.

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 and Planning	<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. • Exposure to stalwarts in the field by way of organizing lectures. • Project based learning in all courses.

ANNEXURE 5

Course / Programme wise Distribution of Pass Percentage

Title of the Programme	Total no. of Students Appeared	Division				
		Distinction %	I %	II %	III %	Total Pass %
B.Tech. Civil Engineering	148	41.22	49.32	8.11	--	98.65
B.Tech. Chemical Engineering	63	52.38	33.33	11.11	--	96.83
B.Tech. Mechanical Engineering	140	57.14	30.00	12.86	--	100.00
B.Tech. Electrical Engineering	138	51.45	41.30	7.25	--	100.00
B.Tech. Instrumentation and Control Engineering	69	46.38	44.93	8.70	--	100.00
B.Tech. Electronics and Communication Engineering	130	50.00	42.31	6.92	--	99.23
B.Tech. Computer Engineering	140	59.29	34.29	5.71	--	99.29
B.Tech. Information Technology	69	44.93	43.48	11.59	--	100.00
B. Pharm.	90	61.11	36.67	2.22	--	100.00
B.A. LL.B. (Hons.)	117	59.83	30.77	0.85	--	91.45
B. Com LLB (Hons.)	67	53.73	37.31	5.97	--	97.01
B.B.A. LLB (Hons.)	53	60.38	26.42	--	--	86.79
MCA	70	64.29	32.86	--	--	97.14
M.Tech. Computer Aided Structural Analysis and Design	30	66.67	30.00			96.67
M.Tech. Environmental Process Design	09	88.89	--	11.11	--	100.00
M.Tech. CAD / CAM	29	86.21	13.79	--	--	100.00
M.Tech. Computer Integrated Manufacturing	09	66.67	22.22	11.11	--	100.00
M.Tech. Design Engineering	17	88.24	11.76	--	--	100.00
M.Tech. Energy System (Mechanical)	03	100.00	--	--	--	100.00
M.Tech. Thermal Engineering	26	69.23	30.77	--	--	100.00
M.Tech.	28	42.86	57.14	--	--	100.00

Electrical Power Systems						
M.Tech. Energy System (Electrical)	04	75.00	25.00	--	--	100.00
M.Tech. Power Electronics	21	47.62	52.38	--	--	100.00
M.Tech. Control and Automation	10	80.00	20.00	--	--	100.00
M.Tech. Communication Engineering	26	80.77	19.23	--	--	100.00
M.Tech. Embedded System	30	100.00	--	--	--	100.00
M.Tech. VLSI Design	30	100.00	--	--	--	100.00
M.Tech. Computer Science	27	100.00	--	--	--	100.00
M.Tech. Computer Science (Split)	02	50.00	50.00	--	--	100.00
M.Tech. Information and Network Security	28	85.71	14.29	--	--	100.00
M.Tech. Networking Technologies	29	86.21	13.79	--	--	100.00
M. B. A. (Full Time)	252	Not Applicable				88.49
MBA(FB&E)	64					73.44
M.Pharm. Clinical Pharmacy	05	60.00	40.00	--	--	100.00
M.Pharm. Regulatory Affairs and Quality Assurance	12	66.67	33.33	--	--	100.00
M. Pharm. Pharmaceutical Analysis	06	50.00	50.00	--	--	100.00
M. Pharm. Pharmacology	04	75.00	25.00	--	--	100.00
M. Pharm. Pharmaceutical Technology and Bio-Pharmaceutics	12	91.67	8.33	--	--	100.00
M.Sc. Biochemistry	18	72.22	27.28	--	--	100.00
M.Sc. Biotechnology	34	79.41	14.71	--	--	94.12
M.Sc. Microbiology	22	72.73	18.18	--	--	90.91
M.Sc. Cosmetic Technology	11	81.82	18.18	--	--	100.00
LL.M. (Criminal and Security Law)	03	--	66.67	--	--	66.67
LL.M. (Constitutional and Administrative Law)	08	25.00	62.50	--	--	87.50

ANNEXURE 6

Completed Externally Funded Major Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Radiation Harden by Design (RHBD) Standard Cell Library Development	Dr. N. M. Devashrayee, Dr. U. S. Mehta	ISRO - RESPOND	21,36,000/=
2.	Isolation of bioactive compound from fruit juice of Emblica officinalis and investigation into the molecular mechanism of action.	Dr. Snehal Patel	Department of Science and Technology	24,74,680/=
3.	Understanding the Nature of Liver-Stage Specific CD8+T Cells Generated following Infectious Sporozite Challenge that Ensure Long—Lived Protection against Plasmodia Infection	Dr. Sarat K Dalai	Department of Biotechnology	42,89,000/=
4.	Biochemical Basis of Repression of MPS Phenotype in Rhizobia	Dr. Shalini Rajkumar	Gujarat State Biotechnology Mission	13,30,160/=
5.	Identification of CD8+T Cell – Specific to Liver-Stage Antigens of Plasmodium Berghei to Understand Anti-Malarial Protective Immunity	Dr. Sarat K Dalai	Gujarat State Biotechnology Mission	19,75,000/=
6.	Generation of Thermostable Variants of a Mesophilic Amylase by Directed Evolution and their Characterization	Dr. Mili Das	Gujarat State Biotechnology Mission	15,95,000/=
TOTAL				1,37,99,840/=

Ongoing Externally Funded Major Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Calibration and Validation of RISAT-1 SAR Sensor and RISAT-1 Derived Soil Moisture	Dr. P. R. Patel	ISRO	29,80,000/=
2.	Development of Passive Damping Surface Coating for Advanced Materials based Structural System using PZT (Piezo) Powder	Dr. S. P. Purohit, Dr. P. V. Patel	ISRO - RESPOND	12,71,000/=
3.	Application of Precast Products Made Using Bottom Ash and Fly Ash for Rural Pavements and Other Infrastructure in India -PI From University Of Victoria, Canada	Dr. U. V. Dave, Dr. Rishi Gupta	IC-IMPACTS	40,65,000/=
4.	Optimization of Corrugated Horn Antenna Using Adaptive Neuro-Fuzzy Inference System	Dr. D. A. Pujara, Dr. D. M. Adhyaru	ISRO - RESPOND	11,04,000/=

5.	Oceanic Pollution and Other Ocean Phenomenon Monitoring using Feature Extraction from Multi-Polarized SAR Data	Dr. T. H. Zaveri, Prof. Pooja Shah	ISRO RESPOND -	18,26,000/=
6.	Process Development for Minimization of Springback Deformation and Enhancement of Profile Accuracy of CFRP Reflectors	Prof. S. J. Joshi, Dr. B. A. Modi, Dr. K. M. Patel	ISRO RESPOND -	14,52,000/=
7.	Study the Behavior of Precast Beam-Column Junction Under Progressive Collapse Scenario – An Experimental and Analytical Investigations	Dr. P. V. Patel, Prof. Digesh Joshi	DST, SERB	20,50,000/=
8.	Understanding the Immersed Friction Stir Welding of Aluminum Alloys	Prof. N. D. Ghetiya, Dr. K. M. Patel, Dr. B. A. Modi	DST, SERB	13,00,000/=
9.	Exploring the effect of histone deacetylases (HDAC) in cancer-cachexia and their downstream targets	Dr. Bhoomika Patel	Science & Engineering Research Board	27,00,000/=
10.	Glutathione Appended Polymer Nano constructs of Asiatic acid for efficacious Neuro protective agents	Dr. Niyati Acharya	Department of Biotechnology	45,56,800/=
11.	FIST Grant to Institute of Pharmacy, Nirma University	--	Department of Science and Technology	55,00,000/=
12.	Liquid Phase combinatorial synthesis of benzimidazole library for antitubercular activity	Dr. Manjunath Ghate	Department of Science and Technology	34,00,000/=
13.	Infectious Nature of Plasmodia Modulating the Innate Response of Host in Liver Stage Infection Deciding the Fate of Adaptive Immunity	Dr. Sarat K Dalai	Department of Science and Technology	52,10,000/=
14.	Development of Chimeric IL-15 to Improve its Bioavailability and Efficacy	Dr. Sarat K Dalai	Department of Biotechnology	34,18,000/=
15.	Molecular Basis of Succinate Mediated (Catabolite) Repression of Mineral Phosphate Solubilization in Nitrogen Fixing Klebsiella Pneumoniae	Dr. Shalini Rajkumar	Science and Engineering Research Board	28,88,000/=
16.	Role of Synaptogenic Adhesion Molecules (SAMs) in Insulin Secretion: Effect of Diabetes and Hypoglycemia	Dr. Ameer K. Nair	Department of Science and Technology	29,40,000/=
17.	'Humanized Liver' to Study Liver Stage Infection of Plasmodium Falciparum	Dr. Rajeev Tyagi	Department of Science and Technology	43,00,000/=
18.	Idiopathic Mental Retardation and Dysmorphisms: Karyotypic and UPD Analysis	Dr. Sonal R. Bakshi	Gujarat State Biotechnology Mission	15,27,000/=
TOTAL				5,24,87,800/=

Sanctioned Externally Funded Major Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Development of Low Cost Methodology for Surveying and Mapping with Navic	Dr. P. R. Patel, Prof. H. A. Dalwadi	ISRO	17,05,000/=
2.	Using Deep Learning to Understand and Predict the Dynamics of Tokamak Discharges	Dr. Priyanka Sharma	Board of Research in Fusion Science and Technology	26,00,000/=
3.	Design and Development of Scalable Data Mining Algorithms for Big Earth Data	Dr. Sanjay Garg	ISRO - RESPOND	10,70,000/=
4.	Spectral Discrimination and Separability Analysis of Crops and Weeds using Deep Learning Techniques	Dr. Vibha Patel	ISRO - RESPOND	10,00,000/=
5.	Design Fabrication and Testing of A Transition From Free Space Gaussian Beam to Fundamental D-Band Wave Guide	Dr. Dhaval Pujara	Board of Research in Fusion Science and Technology	23,79,000/=
6.	Evaluation of radio protective potential of medicinally important Indian bamboo plants in cancer	Dr. Priti Mehta	Ministry of Ayush, Government of India	42,12,250/=
7.	Determination of specific absorption coefficient for the dominant macro algal species of Indian coastal water – A step towards developing biomarkers & community based chlorophyll and accessory pigments algorithm	Dr. Priti Mehta	Space Applications Centre, ISRO	15,90,000/=
8.	Evaluation of DNA Polymerase Inhibitors for Treatment of Alzheimer's Disease	Dr. Jigna Shah	Gujarat State Biotechnology Mission	20,81,920/=
9.	Epidemiology of anemia in pre-school tribal children of eastern Gujarat with reference to etiology, pathophysiology and nutritional impact	Dr. Shital Panchal	Indian Council of Medical Research	18,60,610/=
10.	Determination of Specific Absorption Coefficient for the Dominant Macro Algal Species of Indian Coastal Water- A Step Towards Developing Bio Markers and Pigments Algorithm	Dr. Nasreen Munshi	ISRO	16,00,000/=
11.	Development of Neoadjuvant from Medicinally Important Bamboo Plants for Radiotherapy in Cancer	Dr. Sonal Bakshi	Ministry of AYUSH	42,12,000/=
12.	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	22,51,000/=
13.	Investigation of the regulatory role	Dr. Sriram	Department of Science	9,35,000/=

	of miR-712 in inflammation induced skeletal muscle insulin resistance	Seshadri	and Technology	
14.	Regulation of MHC II Expression: Immunity to Malaria	Dr. Pranati Sar	Department of Science and Technology- Science and Engineering Research Board	35,10,000/=
TOTAL				3,10,06,780/=

Completed Externally Funded Minor Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Use of Marine Sand in Concrete Construction	Dr. U. V. Dave	Adani Infrastructure Limited	2,50,000/=
2.	Design and Development of Automated and Reliable Service Provisioning Cloud Architecture for Engineering Educational Domain	Dr. Madhuri Bhavsar, Prof. Lata Gadhavi	Gujarat Council on Science and Technology (GUJCOST)	3,00,000/=
3.	New Testing Methods at Design Level for Improvement in Performance of VLSI in Nanometre Region	Dr. U. S. Mehta, Prof. P. M. Bhatasana	Gujarat Council on Science and Technology (GUJCOST)	4,35,000/=
4.	Design of ADC for Biomedical Applications	Dr. N. M. Devashrayee, Dr. A. P. Naik	Gujarat Council on Science and Technology (GUJCOST)	4,50,000/=
5.	Low Temperature Synthesis and Characterization of Magnetic Nanoparticles	Dr. Chetna Chauhan	Gujarat Council on Science and Technology (GUJCOST)	4,95,000/=
6.	Process Development for Hydrogen Production through Solar Thermal Energy	Dr. R. K. Mewada, Dr. S. S. Patel	Gujarat Council on Science and Technology (GUJCOST)	4,00,000/=
7.	Determination and Predictions of Thermophysical Properties of Biodiesel and its Blends	Dr. M. H. Joshipura, Dr. A. P. Vyas	Gujarat Council on Science and Technology (GUJCOST)	3,30,000/=
8.	Investigation into the prevalence of pre-diabetic status in gujarati population and evaluation of its association with various risk factors	Dr. Snehal Patel	Research Society for the Study of Diabetes in India	1,95,000/=
9.	Development of self-emulsifying drug delivery systems for poorly soluble antihypertensive drug	Dr. Shital Butani	Gujarat Council on Science and Technology (GUJCOST)	3,60,000/=
10.	Isolation and characterization of marker from polyherbal formulation	Dr. Charmy Kothari	Gujarat Council on Science and Technology	5,00,000/=

			(GUJCOST)	
11.	Investigation into the prevalence of pre-diabetic status in school going children in Gujarati population and evaluation of its association with various risk factors.	Dr. Snehal Patel	Gujarat Council on Science and Technology (GUJCOST)	3,50,000/=
12.	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	Gujarat Council on Science and Technology (GUJCOST)	3,50,000/=
13.	Development and Optimization of Formulations containing Glycin max (Soyabean), Moringa oleifera and Phoenix dactylifera for the Treatment of Malnutrition	Dr. Vimal Kumar	Gujarat Council on Science and Technology (GUJCOST)	5,00,000/=
14.	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	Gujarat Council on Science and Technology (GUJCOST)	4,00,000/=
15.	In-silico designing, synthesis and pharmacological screening of Dipeptidyl peptidase-4 (DPP-4) inhibitors as novel antidiabetic agents	Prof. Manjunath Ghate	Gujarat Council on Science and Technology (GUJCOST)	5,00,000/=
16.	Legal Training programme for pharma company: Issues under drugs and cosmetics act.	Prof. (Dr.) Purvi Pokhariyal	Wockhardt Limited Mumbai	35,519/=
TOTAL				58,50,519/=

Ongoing Externally Funded Minor Research Projects

Sr.No.	Project Title	Project Investigator	Funding Agency	Grant (in ₹)
1.	Synthesis of Cross Linked Starch and Study its Application of in Taste Masking / Coating for Drug Delivery Application	Prof. Nimish Shah	Stabicoat Vitamins, Ahmedabad	71,000/=
2.	Dynamic Characterization of Shock Table	Dr. S. P. Purohit, Dr. P. V. Patel	Gujarat Council on Science and Technology (GUJCOST)	7,40,000/=
3.	Establishment of Free Space Optical Communication Link for Real Time Audio Transmission	Prof. D. G. Shah, Dr. D. K. Kothari	Gujarat Council on Science and Technology (GUJCOST)	3,41,000/=

4.	Design of Low Noise, Low Power, Automatic Gain Controlled Amplifier for Biomedical Applications	Prof. D.J.Panchal, Prof. A I. Mecwan, Prof. V. G.Savani	Gujarat Council on Science and Technology (GUJCOST)	3,20,000/=
5.	Development of Microscopic Technique For Automatic Characterization of the Cell Organisation for Authentication of Few Indian Herbal Plants	Dr. T. H. Zaveri, Prof. B. D.Fataniya	Gujarat Council on Science and Technology (GUJCOST)	2,30,000/=
6.	Precision Agriculture Support System using Wireless Sensor and Actuator Network	Dr. D. K. Kothari, Prof. S. H. Gajjar, Prof. M.A. Upadhyay	Gujarat Council on Science and Technology (GUJCOST)	4,50,000/=
7.	Design of A Hybrid System for Seamless Communication Across DVB-RCS and LTE Networks	Dr. Y. N.Trivedi, Dr. N. P. Gajjar	Gujarat Council on Science and Technology (GUJCOST)	3,00,000/=
8.	Spectrum Sensing Techniques in Cognitive Radio	Dr. Y. N. Trivedi, Prof. Hardik Joshi	Gujarat Council on Science and Technology (GUJCOST)	3,00,000/=
9.	Experimental Investigation of Life Cycle Analysis and Combustion Characteristic Of CI Engine Operating On Esterified Oil And Its Blends with Bio Additives (GUJCOST)	Dr. R. N. Patel, Prof. A. M. Lakdawala Prof. N. K. Shah	Gujarat Council on Science and Technology (GUJCOST)	8,10,000/=
10.	Experimental Investigation on Ultrasonic Single Point Incremental Forming	Dr. B.A. Modi, Prof. A.M. Gohil, Dr K. M. Patel	Gujarat Council on Science and Technology (GUJCOST)	5,30,000/=
11.	Reduction of E-Factor in Dyes and Pigment Industries (Environmental Pollution Control)	Dr. Parin Shah	Green Environment Services Co-op. Soc. Ltd. – CETP	7,50,000/=
12.	Strengthening State Plans for human Development	Prof. M. Mallikarjun	Gujarat Social Infrastructure Development Society	6,00,000/=
13.	Screening & characterization of Anti-	Dr. Priti	Gujarat Council on	3,00,000/=

	cancer bioactive Principle from the indigenous plants of Dang Forest, Gujarat	Mehta	Science and Technology	
14.	Effect of polyphenols containing plant extracts in the treatment and prevention of age related neuro-degenerative disorders	Dr. Shital Panchal	Gujarat Council on Science and Technology	5,35,000/=
15.	Design and synthesis of novel pteridine derivatives as Auora Kinase inhibitors for the treatment of cancer	Dr. Hardik Bhatt	Gujarat Council on Science and Technology	2,70,000/=
16.	Investigation of the role of Tephrosia purpurea in the cardiovascular complications in rats	Dr. Shraddha Bhadada	Gujarat Council on Science and Technology	3,90,000/=
17.	Evaluation of chemoprotective potential of active constituent of L. usitatissimum in colon cancer associated with diabetes mellitus	Dr. Bhoomika Patel	Gujarat Council on Science and Technology	2,80,000/=
18.	Investigation into neuroprotective effects of Bergenia ciliate roots in Alzheimer's disease with special reference to bergenin	Dr. Niyati Acharya	Gujarat Council on Science and Technology	3,22,000/=
19.	Ocular iontophoretic delivery of nanoparticles via transscleral route for posterior disease	Dr. Jigar Shah	Gujarat Council on Science and Technology	7,00,000/=
20.	Development and Optimization of mucoadhesive film for treatment of vaginal candidiasis	Dr. Renuka Mishra	Gujarat Council on Science and Technology	4,85,000/=
21.	Investigation of mechanism of action of selected herbal drugs for the treatment of attention deficit hyperactivity disorder (ADHD)	Dr. Jigna Shah	Gujarat Council on Science and Technology	4,80,000/=
22.	Design and synthesis of quinoline derivatives as novel apoptosis inducers	Dr. Vivek Vyas	Gujarat Council on Science and Technology	6,55,000/=
23.	Downs Syndrome In Gujarat: Molecular Probing In Origin	Dr. Sonal R. Bakshi	Gujarat Council on Science and Technology (GUJCOST)	6,00,000/=
24.	Investigation of the Molecular Basis of Enhanced Exopolysaccharide (EPS) Production by Xanthomonas Campestris under Influence of Audible Sound	Dr. Vijay Kothari	Gujarat Council on Science and Technology (GUJCOST)	3,99,000/=
25.	Demographic Survey of Major Cities	Dr. Ameer K.	Gujarat Council on	1,46,000/=

	of Gujarat for Creation of Diabetic Map	Nair	Science and Technology (GUJCOST)	
TOTAL				1,10,04,000/=

Sanctioned Externally Funded Minor Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Funding Agency	Grant (in ₹)
1.	Development of Blind Hyper Spectral Unmixing (BSU) Algorithm for Water Pollutant Identification Due to Sewage and Industry Disposals for South Karnataka Coast, Manglore Region	Dr. T. H. Zaveri, Prof. Pooja Shah	ISRO – RESPOND	9,00,000/=
2.	Development of Reinforced Aerated Blocks with Innovative Composite Ingredients as Compression Members for Structural Applications with Stringent Design Specifications	Dr. U. V. Dave	ISRO - RESPOND	8,00,000/=
3.	Identification of Existing Road Material, Condition and Potential Parking Area of Ahmedabad City using AVIRIS Data and Updation Plan of Undeveloped Road	Dr. P. R. Patel, Dr. Tanish Zaveri	ISRO	9,00,000/=
4.	Validation of the in vitro and in vivo efficacy of Herboheal against wound-infective bacteria, with respect to its possible quorum-modulatory potential, and elucidation of the underlining molecular mechanism	Dr. Vijay Kothari	BIRAC SRISTI Appreciation Grant	1,00,000/=
TOTAL				27,00,000/=

Ongoing Nirma University Funded Major Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Affordable Pd doped Perovskite based catalytic converter for abating automotive emission	Dr. Femina Patel, Dr. Sanjay Patel, Prof. N K Shah	27,00,000/=
2.	Formulation development and evaluation of Nanoparticulate systems for targeted delivery of anticancer agents	Dr. Mayur Patel	28,92,400/=
TOTAL			55,92,400/=

Completed Nirma University Funded Minor Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Design and Development of intelligent Infrastructure prototype Model for Monitoring Railway Track	Dr. Kamal Mehta	77,000/=
2.	Synthesis, Characterization and Application of Functionalised Macromolecule as Chemical Sensor	Prof. Neha Patni	1,00,000/=
3.	Synthesis of Spinel $MFe_2-xB_xO_4$ ($M = Ni, Cu, Zn$) and $MFe_2-xB_xO_4/TiO_2$ Nano-composite as Novel Photocatalysts for Degradation of Dyes	Dr. Femina Patel	1,00,000/=
4.	Fabrication, Characterization and Application of Electrodes for Electrochemical Waste Water Treatment	Prof. Priya Saxena	1,00,000/=
5.	Studies on Exploring Novel Excipients for Dmg Delivery in Oral Cavity	Prof. Nimish Shah, Dr. Dhairat Parikh	1,80,000/=
6.	Evaluation of Mechanical and Durability Properties on Fly ash and Rice Husk based Geo Polymer Concrete	Prof. S. P. Thakkar	72,187/=
7.	Design and Fabrication of Radial Flux Permanent Magnet Brushless DC Motor	Prof. A. N. Patel, Prof. T. H. Panchal	80,000/=
8.	Trend Analysis and Inclusion of HOTS in Engineering Education	Dr. Richa Mishra	1,00,000/=
9.	Test- Rig for Experimental Investigations of Bearing Faults in Rolling Bearings	Prof. V. M. Bhojwala, Prof. D.V. Patel, Prof. D.J. Shah	1,00,000/=
10.	Development of Experimental Set Up for Determination of Stiffness Properties of Fibre Reinforced Composite using Vibration Testing	Prof. S. J. Joshi, Prof. D. B. Shah	1,00,000/=
11.	Performance Evaluation of Solid Lubricants Mixed With SAE - 40 Oil Machining of EN- 31 Steel Material	Dr. K. M. Patel, Prof. M. A. Makhesana	90,000/=
12.	Robust Methods for Income Distribution Models	Prof. Mahesh K.C., Prof. Dhiren Jotwani	21,000/=
13.	A Study of HR Practices and Issues in Gaglani Metal Industries in Ahmedabad	Prof. Reena Shah	17,800/=
14.	Needs and Barriers of Online Shopping – An Exploratory Study of Indian Shoppers	Dr. Ashwini Awasthi, Dr. Sunita Guru	34,000/=
15.	Employee Work Passion : Creating a Motivating Work Environment	Prof. Nina Muncherji	73,000/=
16.	Study of Devotees and Prasadalya Management at Shri Sai Baba Temple, Shirdi	Prof. Nityesh Bhatt	40,000/=
17.	Studies on Exploring Novel Excipients for Drug Delivery in Oral Cavity(Colloborative project with Chemical Engineering, ITNU)	Dr. Dhairat C. Parikh	1,80,000/=

18.	Formulation, design and development of sublingual film of an anti-hypertensive drug	Dr. Renuka Mishra	90,000/=
19.	Standardization and evaluation of a polyherbal formulation for metabolic disorder	Ms. Nagja Tripathi	80,000/=
20.	Development of Oryzanol formulation and its pharmacological evaluation for neurodegenerative disorders	Dr. Shital Panchal	1,00,000/=
TOTAL			17,34,987/=

Ongoing Nirma University Funded Minor Research Project

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Investor's Behaviors towards Mutual Fund Investing with reference to Investors in Gujarat	Prof. Parag Rijwani, Prof. Jayesh P. Aagja	30,000/=
2.	Modeling Performance measurement of Service Organizations using Data Envelopment Analysis (DEA)	Dr. Chetan A. Jhaveri	1,00,000/=
3.	Succession Planning in Family Owned Businesses	Dr. Sameer Pingle, Dr. Jayesh Aagja	60,000/=
4.	Study on Efficiency of Stock Futures Market in India	Prof. Deepak Danak, Prof. Nikunj Patel	99,440/=
5.	Teaching Learning Entrepreneurship: An Impact Study	Dr. Shahir Bhatt, Prof. Amola Bhatt	21,000/=
6.	Negative Externalities Caused by Aesthetic Pollution (Environmental Economics)	Prof. Nirmal C. Soni, Prof. Naresh Poturaju	32,800/=
7.	Evaluation of anti-hypertensive agent in cancer cachexia induced cardiotoxicity	Dr. Bhoomika Patel	55,000/=
8.	Pharmacological evaluation of Antirolithiatic activity of roots of Grewia flavescens	Dr. Niyati Acharya	80,000/=
9.	Beneficial effect of pimpinella anisum in delaying cataract	Dr. Shraddha Bhadada	65,000/=
10.	In-Silico designing, synthesis and pharmacological evaluation of novel anti cancer agents	Ms. Palak Parikh	90,000/=
11.	Judicial Activism dealing with identity based violence: Trends and Challenges	Dr. Varsha Ganguly	1,00,000/=
12.	Environment Audit Framework: Case of Nirma University	Prof. Pratima Singh	1,00,000/=

TOTAL	8,33,240/=
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Sanctioned Nirma University Funded Minor Research Projects

Sr. No.	Title of the Project	Project Investigator/s	Grant (in ₹)
1.	Development of High Temperature Applications using Fresnel Lens as Solar collector	Dr. R. K. Mewada	1,00,000/=
2.	Fabrication, Characterization and Application of Polymer in Solar Cell	Prof. Neha Patni	1,00,000/=
3.	Microwave Assisted Oil Extraction from Algae	Dr. M. Jhansi L. Kishore	1,00,000/=
4.	Development of low cost technique to remove copper from e-waste	Prof. Amita Chaudhary	1,00,000/=
5.	Design and Investigation of Advanced Control Schemes For Quadruple Conical Tank System"	Prof. Alpesh Patel, Prof. J. B. Patel	1,00,000/=
6.	Investigation on Application of Minimum Quantity Solid Lubrication in Machining Process	Prof. M.A. Makhesana, Dr. B.K. Mawandiya, Dr. K.M.Patel	60,000/=
7.	To Study Effect of Characterization Properties on Dimensional Control for Composite Product	Prof. D.B. Shah, Prof. S.J. Joshi	1,00,000/=
8.	Investigations on Producer Gas Quality for Fixed Bed Gasifier	Prof. D.S. Upadhyay, Prof. N.K. Shah, Dr. R.N. Patel	1,00,000/=
9.	Use of Pervious Concrete for Solving Problem Related to Water Clogging at Nirma University Campus	Prof. T. M.Joshi, Dr. U. V. Dave	1,00,000/=
10.	Simultaneous Localization and Mapping Using Autonomous Unmanned Aerial Vehicle	Dr. D. K.Kothari, Prof. D. J. Panchal	98,000/=
11.	Solubility enhancement of BCS class II drug using emulsifying drug delivery system	Dr. Mohit Shah	90,000/=
12.	Synthesis of co-crystal of acyclovir for improvement of physicochemical parameters	Dr. Jignasa Savjani	85,000/=
13.	Solubility enhancement of lead candidates as anti-diabetic agents	Prof. Nrupesh Patel Dr. Bhumika Patel	1,00,000/=
TOTAL			12,33,000/=

ANNEXURE VII

Best Practices

Best Practice – I

Title of the Practice:

Short Term Training Programme on “Construction Practices on Wheels”

Objectives of the Practice:

- To understand existing practices of construction of Civil Engineering structures.
- To correlate theoretical concepts with prevailing practices at construction projects.
- To study Advanced Methodologies and Materials used at Construction projects.

The Context:

Various site visits were conducted by the faculty participants of the programme as a part of the STTP during 05th June 2017 to 17th June 2017. These visits included variety of construction projects. The type of structures included during the visit were Pre-Engineered Buildings (Technico Industries and V Rubber Industries), Green Building (Gujarat Housing Board Office), Marine Structures (Adani Port), Institutional Building (Nirma University new buildings), Thermal Power Plant (Adani Power), Road Construction (Mehsana-Himmatnagar Highway), Metro Rail Project (Ahmedabad Metro, MEGA) and Hydro Power Project (Miyagam Branch Canal). The participants of the programme were provided the in-depth details about the projects visited by the corresponding Civil Engineering authorities at the sites. The participants prepared the assignments and charts to supplement the knowledge gained during the field visits.

The Challenges:

- Crunch of participant from industries and self-financed engineering institution for the period of two weeks.
- Faculty participants to visit construction sites and prepare the assignments and term papers to supplement the knowledge gained during the visit with the Civil Engineering subject fundamentals.

The Practice:

- To explore advance methodologies related to Civil Engineering.
- To learn about state of art Technologies practiced at Construction sites.

Uniqueness in the context of Indian Higher Education:

It was decided to offer such course as an elective for the students. Therefore, the faculty members took the challenge of visiting the sites and getting first-hand experience of gaining the knowledge from the site visit. Such experience was fruitful as that gave the opportunity to the participants of remained up to date about recent advances in design and practice related to Civil Engineering.

Constraints / Limitations:

Time allocation for each site visit was limited. More stay at the site would have given the opportunity of more learning for the faculty participants. The types of construction projects selected for the visit were also limited due to limited duration of programme of two weeks.

Evidence of Success:

Photographs and video's which will be useful for teaching various topics related to Civil Engineering. Apart, the faculty members did the assignments themselves related to their every visit. Such practice would be very useful during forming the assignments for the students while offering the said type of course to the students in the future.

Problems Encountered and Resources required:

- Availability of expert resource person from Professional Fields.
- Requirement of permission for the visit of important infrastructure.
- Travelling support and Financial support to conduction long duration site visits.
- Accommodation facilitates and lodging facilities at construction sites.

Best Practice – II

Title of the Practice:

Vichar Vinimay

Objectives of the Practice:

To provide a forum to faculty members and researchers to share their research work, thoughts and ideas

The Context:

Increasing need of inter-disciplinary research and collaborative efforts for joint research

The Challenges:

Potential areas of inter-disciplinary research are difficult to identify. In the said context, such a platform facilitates discussion on these aspects.

The Practice:

Vichar Vinimay sessions are held regularly every week. All the faculty members and PhD Students of IMNU are provided at least one opportunity to present their research work and thoughts.

Uniqueness in the context of Indian Higher Education:

Vichar Vinimay provides a platform for assessing nature of research idea by presenting it first among the faculty colleagues. Constructive feedback is offered during the discussions followed after each of the presentations. It provides encouragement to faculty members at the initial stage of their academic career for conducting research and provides a platform to assess quality of their research ideas for senior faculty colleagues.

Constraints / Limitations:

Faculty members do not voluntarily present their research projects. Therefore, the practice is made compulsory of giving at least one presentation in a year.

Evidence of Success:

Vichar Vinimay results in publications as well as presentation at conferences. The research has begun on inter-disciplinary topics also.

Problems Encountered and Resources required:

The problem is to having voluntary presentations from all faculty members.