

SELF-STUDY REPORT

(FOR RE-ACCREDITATION)

VOLUME – II

(Self-Evaluative Reports of the Constituent Institutes of Nirma University)

Submitted by:



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

Submitted to

Director

National Assessment and Accreditation Council
P. O. Box No. 1075, Nagarbhavi
Bangalore -560072, Karnataka, India

April 2015

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**Self-Evaluative Report
of
Institute of Technology**

Self-Evaluative Report of Institute of Technology

(Assessment Period: January 01, 2010 to February 28, 2015)

1. ***Name of the Institute:***
Institute of Technology

2. ***Year of establishment:***
The Institute of Technology, earlier known as Nirma Institute of Technology, was established in the year 1995.

3. ***Is the institute part of a School/Faculty of the university?***
Yes, The institute is a constituent institution of Nirma University.

4. ***Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)***
Under Graduate Programmes:
 B.Tech. in:
 1. Chemical Engineering
 2. Civil Engineering
 3. Computer Engineering
 4. Electrical Engineering
 5. Electronics & Communications Engineering
 6. Information Technology
 7. Instrumentation & Control Engineering
 8. Mechanical Engineering
Post Graduate Programmes:
 M.Tech. in:
 1. Chemical Engineering (Environmental Process Design)
 2. Chemical Engineering (Energy System)
 3. Civil Engineering (Computer Aided Structural Analysis & Design)
 4. Computer Science & Engineering
 5. Computer Science & Engineering (Networking Technologies)
 6. Computer Science & Engineering (Information and Network Security)
 7. Electrical Engineering (Power Electronics, Machines & Drives)
 8. Electrical Engineering (Electrical Power systems)
 9. Electrical Engineering (Energy System)
 10. Electronics & Communication Engineering (VLSI Design)
 11. Electronics & Communication Engineering (Communication Engineering)
 12. Electronics & Communication Engineering (Embedded Systems)
 13. Instrumentation & Control Engineering (Control & Automation)
 14. Mechanical Engineering (Computer Aided Design/Computer Aided Manufacturing)
 15. Mechanical Engineering (Thermal Engineering)
 16. Mechanical Engineering (Design Engineering)
 17. Mechanical Engineering (Computer Integrated Manufacturing)
 18. Mechanical Engineering (Energy System)

Master of Technology by Research
Master in Computer Application

Ph.D. Programmes:

Full Time

External

5. ***Interdisciplinary programmes and departments/institutes involved:***
NIL
6. ***Courses in collaboration with other universities, industries, foreign institutions, etc.***
 - ‘Practical Training’ course of B.Tech. and M.Tech. students in IITs, Research Organisations and Industries.
 - Projects of B.Tech., M.Tech. and Ph.D. students in Research Organisations and Industries.
 - ‘Community Service’ course of B.Tech. students in collaborations with different NGOs.
7. ***Details of programmes discontinued, if any, with reasons***
The following programmes are discontinued at Institute of Technology during the assessment period:

M.Tech. in Civil Engineering (Geomatics)
M.Tech. in Chemical Engineering (Chemical Process and Plant Design)
Post Graduate Diploma in Computer Applications (PGDCA)

 All the programmes were initiated by Institute of Technology considering the opportunities for students in the respective areas. However, it was observed that the demand is decreasing over the years and less number of programme aspirants had shown interest for admission in above mentioned programmes.
8. ***Examination System: Annual/Semester/Trimester/Choice Based Credit System***
Semester System
9. ***Participation of the department in the courses offered by other department:***
 - The faculty members of the institute taught a subject ‘Computer Applications for Law Students’ offered by the Institute of Law.
 - The faculty members of the institute taught a subject ‘Cyber Security’ offered by the Institute of Pharmacy.
 - The faculty members are on Board of Studies of other institutes.

10. **Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors / others)**

Name of the Post	Sanctioned Post	Filled Post	Actual (including CAS & MPS)
Professor	45	25	25
Associate Professor	82	41	41
Assistant Professor	130	148*	148*
Visiting Faculty		16	

* Additional Faculty recruited against the post of Associate Professors.
15 new faculty members are issued appointment orders recently.

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Currently, the Institute has 214 faculty members, out of which 47 faculty members are with Ph.D. qualification and 74 faculty members are pursuing Ph.D.

The details can be found in Annexure–I, attached at the end of this report.

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:**

The list of Adjunct Professors for the assessment period is as under:

Sr. No.	Name of the Professor	Qualification	Visiting Fellows / Adjunct Faculty / Emeritus Professors
1.	Prof. G.I. Prajapati	Ph.D.	Adjunct Professor
2.	Late Dr. N. Subrahmanyam	Ph.D.	Adjunct Professor
3.	Prof. Kunal Ghosh	Ph.D.	Adjunct Professor

13. **Percentage of classes taken by temporary faculty – programme-wise information:**

Name of the Programme	Percentage of Classes Taken by Temporary Faculty in Year 2013-14
B.Tech.	2.73%
M.Tech.	1.20%
MCA	5.77%

14. **Programme-wise Student Teacher Ratio:**

Name of the Programme	Total No. of Students Enrolled	Total No. of Teachers	Student Teacher Ratio	Total No. of Teachers	Student Teacher Ratio
		(Sanctioned)		(Filled)	
UG & PG*	4239	257	16.5:1	214	19.80:1

* All the teachers are involved in teaching of UG and PG courses based on their expertise and hence the teachers cannot be bifurcated separately for UG or PG teaching. Considering this, combined ratio for UG and PG is given.

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled**

Name of the Position	Sanctioned Post	Filled Post
Number of Technical Staff	74	68
Number of Administrative Staff	51	45

16. **Research thrust areas as recognized by major funding agencies:**

- Advanced Oxidation Processes for Wastewater
- Transesterification of Jatropha Oil
- Determination and Predictions of Properties of Biodiesel and its Blends
- Process Development for Hydrogen Production through Solar Thermal Energy
- Reduction of E-Factor in Dyes and Pigment Industries
- Pump as Turbine for Micro-hydel Applications
- Bio-mass Gasification
- Engine Wear
- Thermal Insulation
- Friction Stir Welding
- Concrete Technology
- Precast Structures
- Geomatics Applications in Civil Engineering
- Spatio-Temporal Data Mining
- Security in GSM
- Cloud Computing and Architecture
- Parallel Computing Applications
- Image and Video Processing
- Design and Development of 32 bit RISC Processor
- VLSI in Nanometer Region
- ADC for Biomedical Applications
- Radiation Harden by Design (RHBD)
- Autonomous Wheel Chair
- Precision Agriculture Support System
- Spectrum Sensing Techniques
- Adaptive Neuro-Fuzzy Inference System
- Low Cost ICT based Portable Telemedicine System
- Adaptive Neuro Fuzzy Interface System (ANFIS)
- Agriculture Support System
- Characterization of Magnetic Nanoparticles
- Multimedia Communication

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Faculty Members Involved :	48
Ongoing Research Projects :	37 (25 funded by external funding agencies & 12 by Nirma University)
Completed Projects:	33 (15 funded by external funding agencies & 18 by Nirma University)
Total Grants Received :	Rs. 3.07 crore (~Rs 2.81 crore external funding agencies & ~Rs 26 lacs Nirma University funded)

The details will be provided to the peer team at the time of visit as Annexure – II.

18. **Inter-institutional collaborative projects and associated grants received:**

International Collaboration:

Title of the Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
Security Enhancement on GSM Stream Cipher using Combining Approach of Variable Tap Mechanism and Nonlinear Combination Functions Applying on Linear Feedback Shift Register	Dr. Priyanka Sharma	CA10,000\$	Dalhousie University, Halifax, Nova Scotia, Canada	Dr. Srinivas Sampalli
Calibration and Validation of European Space Agency SMOS mission for Soil Moisture Mapping	Dr. Parul Patel and Dr. A. K. Singh	10 Lacs	European Space Agency	Mrs. Parul Patel SAC, ISRO

National Collaborations:

Title of the Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
Developing Adaptive NeuroFuzzy Interface System (ANFIS) based CAD tool Designing a Corrugated Horn Antenna	Prof. Dhaval Pujara and Prof. Dipak Adhyaru	11.04 Lacs	SAC, ISRO	Mr. Sanjeev Kulshrestha
Developing a Remote Sensing and GIS Based System Approach for Flood Forecasting and Warning for Lower Tapi Basin	Dr. A. K. Singh	15.93 Lacs	SAC, ISRO	Dr. A. K. Sharma
Satellite derived Rainfall and River Discharge and it's Seasonal to Inter-Annual Variations from Altimeter-Radiometer Data	Prof. Santosh S. Kolte	18 Lacs	SAC, ISRO	Dr. R. M. Gairola
Calibration and Validation of RISAT-1 SAR Sensor and RISAT-1 derived Soil Moisture	Dr. Parul Patel	17 Lacs	SAC, ISRO	Mrs. Parul Patel
Development of Passive Damping Surface Coating for Advanced Materials based Structural System using PZT (Piezo) Powder.	Dr. Sharadkumar P. Purohit, and Dr. Paresh V. Patel	8.09 Lacs	SAC, ISRO	Dr. B. S. Munjal, and Mr. Ankur Achanani
Design and Development of 32 bit RISC Processor based IP Core for Space Applications (completed in 2011)	Dr. N. M. Devashrayee	16.02 Lacs	SAC, ISRO	Mr. Nilesh Desai
Radiation Harden by Design (RHBD) Standard Cell Library	Dr. N. M. Devashrayee	21.36 Lacs	SAC, ISRO	Mr. Nilesh Desai

Development				
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19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Being a statutory private University, the University is not covered under UGC act 12(B), hence it is not eligible for funding from UGC.

20. **Research facility/Centre with (a) state recognition (b) national recognition (c) international recognition:**

Name of Research Facility / Centre	Recognised By	Recognition State / National / International
DC Power Supply Instrument	Department of Science and Technology (DST), New Delhi	National
Ultrasonic Processor (Vibronics Make)	Gujarat Council on Science & Technology (GUJCOST)	State
National Laboratory for Testing and Development of Thermal Insulations (A Project under National Facilities in Engineering and Technology with Industrial Collaboration (NAFETIC) Scheme of All India Council For Technical Education)	AICTE	National
Bio Mass Gasifier Center	DST	National
Pump as Turbine with Instrumentation Equipment	GUJCOST	State
NVIDIA Research Centre	NVIDIA	National
High End Workstation with SSD Drive, External Hard Disk and Printer	ISRO	National
MSP-430 Microcontroller Kit	Texas Instruments (India) Ltd.	International
10 Intel Gallelio Boards	Intel Technologies (India) Ltd.	International
Altera Quartus II Software (25 User Licenses)	ALTERA	National
NVIDIA GP GPU Cards (3 nos)	NVidia (India)	National
Mitsubishi PLC Kit	Mitsubishi Electric India Pvt. Ltd.	International

21. **Special research laboratories sponsored by / created by industry or corporate bodies:**

Name of Research Facility / Centre	Name of Sponsored Industry / Corporate Bodies
ISRO Respond Project Laboratory	Space Application Centre, ISRO, Ahmedabad

22. **Publications:**

• International Research Publications	345
• National Research Publications	38
• Highest H index of the Faculty Member :	12
• Number of Books :	47
• Number of Book Chapters Published:	08

The details will be provided to the peer team at the time of visit as Annexure – III, IV, V and VI.

23. **Details of patents and income generated:**

Total 10 patents have been filed in India out of which 01 patent has been published during the assessment period. Since the patent is published recently, no income has been generated through it.

The details will be provided to the peer team at the time of visit as Annexure-VII.

24. **Areas of consultancy and income generated:**

List of Areas of Consultancy:

- Energy Conservation and Management, Thermal System Modelling
- Non-Conventional Machining, Welding Processes
- Numerical and Experimental heat transfer, Computational Fluid Dynamics
- Metal forming Analysis, Sheet Metal Forming, Composites
- Closed Loop Supply Chain, Production Planning and Inventory Management
- MEMS, Optimization, FEA
- Fracture Mechanics, Composites
- Environment Engineering, Audit & Adequacy
- Water and Waste Water Treatment
- Oil Testing
- Structural Analysis & Design
- Material Testing
- Structural Assessment
- Rehabilitation and Retrofitting
- Control & Automation

- Power Electronics, Power System, Electrical Machine Design, Analysis & Testing
- DSP and Applications
- Embedded Systems
- Electronics System Design
- RF and Antenna Design

Income Generated from Consultancy:

₹ 1,59,58,000/-

25. ***Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:***

The summary for the assessment period is as under:

- Twenty two faculty members visited international institutes for sharing of research work.
- Fifty one faculty members have visited one hundred seventy national institutes
- One hundred five faculty members have visited seventy nine industries.

The details will be provided to the peer team at the time of visit as Annexure– VIII.

26. ***Faculty serving in National committees b) International committees c) Editorial Boards d) any other***

The summary for the assessment period is as under:

- Five faculty members are editorial board members.
- Seventeen faculty members have served national committees during assessment period.

The details will be provided to the peer team at the time of visit as Annexure– IX.

27. ***Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):***

Faculty Recharging Strategies:

Considering the importance of Faculty and Staff development activities, the University has set-up its own system of 'Faculty Development' under the supervision of a core committee headed by Director General. A senior professor is given charge of organizing and monitoring staff development activities.

The Faculty Development programmes are arranged in four different categories, namely

- i) Induction Training Programme of 4 weeks for newly recruited faculty members before they go for class-room teaching
- ii) Orientation Programme of 2 weeks for teachers having 2-5 years of teaching experience
- iii) Refresher Course of 2 weeks
- iv) Research Orientation of 2 weeks

Summary of Faculty Recharging Programmes:

The summary for faculty deputed for participation in the various programmes for assessment period is as under:

- Faculty registration sponsored: 2195
- No of programmes attended by the faculty members: 292

The details will be provided to the peer team at the time of visit as Annexure– X.

28. **Student project:**

Percentage of students who have done in-house projects including inter-departmental projects:

UG:

Year	Percentage of students who have done in-house projects including inter-departmental projects							
	CH	ME	CE	IT	CL	EC	IC	EE
2010	100%	100%	14%	6%	100%	32%	48%	85%
2011	100%	100%	17%	31%	100%	82%	46%	96%
2012	100%	97%	8%	40%	100%	59%	86%	92%
2013	100%	100%	4%	8%	100%	67%	86%	94%
2014	100%	100%	21%	1%	100%	70%	78%	88%

PG:

Year	Percentage of students who have done in-house projects including inter-departmental projects								
	CH	ME	CE	IT	CL	EC	IC	EE	MCA
2010	40%	51%	68%	76%	33%	NA	6%	--	
2011	59%	27%	79%	100%	25%	NA	42%	--	
2012	40%	27%	73%	94%	15%	28%	53%	--	
2013	54%	34%	76%	77%	9%	44%	47%	3%	
2014	50%	18%	49%	73%	15%	40%	44%	6%	

Percentage of students doing projects in collaboration with other universities industry / institute:

UG:

Year	Percentage of students doing projects in collaboration with other universities / industry / institute							
	CH	ME	CE	IT	CL	EC	IC	EE
2010	--	--	86%	94%	--	68%	52%	15%
2011	--	--	83%	69%	--	18%	54%	4%
2012	--	3%	92%	60%	--	41%	14%	8%
2013	--	--	96%	92%	--	33%	14%	6%
2014	--	--	79%	99%	--	30%	22%	12%

PG:

Year	Percentage of students doing projects in collaboration with other universities / industry / institute								
	CH	ME	CE	IT	CL	EC	IC	EE	MCA
2010	60%	49%	32%	24%	67%	NA	94%	100%	
2011	41%	73%	21%	--	75%	NA	58%	100%	
2012	60%	73%	27%	06%	85%	72%	47%	100%	
2013	46%	56%	24%	23%	91%	56%	53%	97%	
2014	50%	82%	51%	27%	85%	60%	56%	94%	

Notations:

CH – Chemical Engineering	IT – Information Technology
CL – Civil Engineering	IC – Instrumentation & Control Engineering
CE – Computer Engineering	ME – Mechanical Engineering
EE – Electrical Engineering	MCA – Master of Computer Application
EC – Electronics & Communication Engineering	

29. ***Awards / recognitions received at the national and international level by Faculty and Students***

The faculty members have been acknowledged for their contribution of Teaching and Research in their respective areas of expertise.

- During the assessment period 79 awards / recognitions were received by faculty members.
- Similarly, during the assessment period 35 awards were received by students for their participation in various competitions.

The details will be provided to the peer team at the time of visit as Annexure– XI.

30. ***Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any***

- The Institute has organized 04 International Conferences, 107 Seminars/ Workshops.

The details will be provided to the peer team at the time of visit as Annexure– XII.

31. ***Code of ethics for research followed by the departments:***

The Institute follows the Code of Ethics for Research as prescribed by the University. The copy of the same is attached as Annexure– A.

32. **Student profile programme-wise (For year 2014):**

Name of the Programme	Applications Received	Admitted		Pass Percentage	
		Male	Female	Male	Female
B. Tech. (2010-2014)	4349*	529	105	98.21	96.72
M.Tech. (2012-2014)	1534	404	82	96.78	87.80

* For B. Tech. programmes, for 75 % seats, the admissions are carried out by the Admission Committee for Professional Courses (ACPC) of Gujarat State. The institute gives admission for the remaining 25 % seats. Thus, the applications are invited for 25% of seats. Out of which, the 10% seats were filled-up through all India ranking based on AIEEE score and 15% seats were filled-up based on AIEEE ranking for domicile of Gujarat state.

33. **Diversity of Students (For year 2014)****UG Students:**

Batch	% of Students from the same University	% of Students from other Universities/ boards within the State	% of Students from Universities/ boards outside the State	% of Students from other Countries
2010-2014	NA	89.9	7.9	2.2

PG Students:

Batch	% of Students from the same University	% of Students from other Universities within the State	% of Students from Universities outside the State	% of Students from other Countries
2012-2014	2.1	82.8	15.1	---

**Students from other countries are from PIO and Gulf quota.

34. **How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Examinations	Number of Students*
UGC-CSIR NET	--
SET	--
GATE	214
GPAT	--

GRE	116
TOEFL	50
GMAT	--
CAT	166
Indian Administrative Services	--
Indian Engineering Services	02
Indian Defence Services	03

**based on available data from Alumni.*

35. **Student Progression**

Student Progression	Percentage against Enrolled UG batch 2010-2014*	Percentage against Enrolled PG batch 2012-2014*
UG to PG	11%	NA
PG to M.Phil.	NA	NA
PG to Ph.D.	NA	<1%
Ph.D. to Post-Doctoral	NA	NA
Employed through Campus Selection	78%	15%
Employed through other than Campus Recruitment	10%	80%
Entrepreneurs	<1%	<1%

* based on the available data.

36. **Diversity of Staff:**

Percentage of Faculty Member who are Graduated	
From the same University	23.83%
From other Universities within the State	41.59%
From Universities from other States	32.71%
From Universities outside the Country	1.87%

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Nineteen faculty members have received Ph.D. degree during the assessment period.

38. **Present details of departmental infrastructural facilities with regard to:**

a) **Library:**

Area: 929.27 sq.mt.

Books Volumes: 53508

Journals: 177 Print Periodicals

e-journals: 700 Online Journals

CDs/DVDs: 3172

NPTEL: 170 Courses (6357 lectures)

b) Internet Facilities for Staff and Students:

The entire University campus and hostels are Wi-Fi enabled, with 256 Mbps connectivity. This facility is offered to all staff members, PG students and final year students of UG.

c) Total Number of Class Rooms:

64

d) Class Rooms with ICT Facilities:

64

e) Students' Laboratories:

61

f) Research Laboratories:

16

g) Seminar Halls / Auditorium:

05

h) Conference Rooms:

03

39. **List of Doctoral, Post-doctoral Students and Research Associates:**

a) From the Host Institution / University:

Sr. No.	Name of the Student	Doctoral / Post-Doctoral	Topic
1.	Shah Kehul Anilkumar	Doctoral	Design and Implementation of CMOS Gm-C IF Filter using Switching Capacitor Array (SCA) for Dual Band Receiver
2.	Gandhi Sanjay P	Doctoral	Catalytic Carbon Dioxide reforming of Methane to Synthesis Gas
3.	Thakkar Ankit Rajeshkumar	Doctoral	Energy Efficient Routing with Effective Clustering Mechanisms in Wireless Sensor Networks
4.	Swati Jain	Doctoral	Addressing one or more issues in Image and Video Retrievals
5.	Gehani Aarti Kishor	Doctoral	Investigation on Soft Computing Techniques for Antenna Parameters Optimization
6.	Solanki Pareshkumar Mahendrabhai	Doctoral	Web Mining

7.	Patel Mehulkumar Laxmanbhai	Doctoral	Design and Implementation of Low Power High Speed CMOS Switched Capacitor (SC) Circuit
8.	Patel Niravkumar Pravinbhai	Doctoral	Stress Analysis and Optimization of Symmetric and Unsymmetric Laminated Composite Plate with a discontinuity for Optimum Stresses and Failure Strength
9.	Shah Manisha Tusharbhai	Doctoral	Investigation on Generalization of Current Error Space Phasor based Pulse Width Modulation Controller for Multi-Level Inverter Applications
10.	Savani Vijay Gopalbhai	Doctoral	Ultra Low Voltage and Ultra Low Power Data Converter
11.	Kapil P. N.	Doctoral	Investigation on Active Clamping Based Multi-Level Inverter Topology for Induction Motor Drives
12.	Mecwan Akash Isudas	Doctoral	Design of Low Noise RF Amplifier using 90 nm CMOS Technology
13.	Patel Mahesh Amrutbhai	Doctoral	Design and Analysis of Permanent Magnet Machine for Wind Power Generation
14.	Joshi Digesh Dilipkumar	Doctoral	Progressive Collapse Analysis of Building
15.	Patel Chirag Ishwarbhai	Doctoral	Object Detection and Surveillance System
16.	Thakkar Sonal P.	Doctoral	Evaluation of Short and Long Term Properties of Fly Ash and GGBFS based Polymer Concrete for Civil Engineering Applications
17.	Suthar Jahanvi M.	Doctoral	Performance based Design
18.	Patel Priya Sriprakash	Doctoral	Electrochemical Technology for Wastewater Treatment
19.	Chakravarti Jatin Mukeshbhai	Doctoral	Wireless Communication
20.	Kotecha Radhika Navinbhai	Doctoral	Privacy Preserving Classification of Horizontally Partitioned data using Genetic Programming
21.	Gadhavi Lataben Jasvantdanji	Doctoral	Database System and Mining
22.	Parmar Harikrushna Chandubhai	Doctoral	Low Power Testing in VLSI Design
23.	Dhare Vaishali Hiteshkumar	Doctoral	Testing of Mixed Signal VLSI Circuits
24.	Joshi Tejas Mukundbhai	Doctoral	Applications of Fiber Reinforced Polymer in Concrete Road Pavement Design
25.	Patel Jayeshkumar Jasvantbhai	Doctoral	Data Converter - DAC

26.	Popat Jayesh Bharatkumar	Doctoral	Test Data Compression for Scan-Based Testing
27.	Bhatia Jitendra Bhagwandas	Doctoral	Vehicular Cloud (Integration of Cloud in Vehicular Ad hoc Network)
28.	Shah Pooja Prakashbhai	Doctoral	Image Processing for Remote Sensing Applications
29.	Patel Nileshkumar Dahyalal	Doctoral	Design and Development of Low-Power, Low-Jitter Digital PLL in Submicron CMOS Technology
30.	Gandhi Priyeshkumar Pratapbhai	Doctoral	High Speed Power Efficient CMOS Comparator
31.	Pardiwala Julie Minoo	Doctoral	Photo Catalytic Degradation of Azo Dye Using Spinel
32.	Suthar Jigar Dhirajkumar	Doctoral	Parameter Optimization, Redesign, Analysis and Manufacturing of Exhaust Impeller
33.	Vini Dadiala	Doctoral	Sliding Mode Control based Main Steam Temperature Control
34.	Gohel Vivek Premji	Doctoral	Risk Assessment of Existing RCC & PSC Bridge Structures
35.	Thaker Pinakin Purushottamdas	Doctoral	Design and Analysis of Advanced Digital Technique and Implementation using VLSI Technology
36.	Chintan R. Mehta	Doctoral	Renewable Energy Sources Integration in Conventional Grid Systems

b) From Other Institutions / Universities:

Sr. No.	Name of the Student	Doctoral / Post-Doctoral	Topic
1.	Pradyumansinh Udaysinh Jadeja	Doctoral	Survey of Web Mining Methods
2.	Kedar Prasad Agrawal	Doctoral	A Predictive Model using Machine Learning based Data Mining Techniques
3.	Chudasama Vipul H.	Doctoral	Cloud Computing and Artificial Intelligence
4.	Chokshi Nikita P.	Doctoral	Catalytic Ozonation for Wastewater Treatment
5.	Joshi Rashmi Shankardatt	Doctoral	To Investigate the Electrostatic Discharge Inception Mechanism on a Satellite Solar Array Coupon
6.	Patel Vikram Amrutbhai	Doctoral	Experimental Investigation of Effect of various Parameters in EDM Process on Al ₂ O ₃ based Metal Matrix Composites
7.	Shah Dhaval Gopalchandra	Doctoral	Investigations on Semiconductor Optical Amplifier

8.	Amit Kumar Srivastava	Doctoral	Development of Techniques for Event-driven Multi-rate Data Acquisition
9.	Manoj Kumar Gupta	Doctoral	Design, Analysis and Fabrication Techniques for Large Size Liquid Nitrogen Cryopumps
10.	Patel Vimal Ranchhdodlal	Doctoral	Experimental Studies on Lignite Gasification Process
11.	Upadhyay Manisha J.	Doctoral	Distributed Transmit and receive Diversity Techniques and Trade-Offs for Cooperative Communication
12.	Dave Jatinkumar Maheshkumar	Doctoral	Stress Analysis of Unsymmetrical Laminates subject to different loading conditions
13.	Chauhan Mihir Mahendrakumar	Doctoral	Stress Analysis of Finite Laminated Composite Plate with Discontinuity
14.	Gajjar Ruchi Indravadan	Doctoral	Image Processing Techniques in The Area of Remote Sensing
15.	Sharma Sandip Prahlabdhai	Doctoral	Applications of Electrochemical Methods for Dyes Wastewater
16.	Patel Pareshkumar Dashrathbhai	Doctoral	Combustion Analysis and Performance Characteristics of Compression Ignition Engine Operating on the Blends of Bio Diesel and Diesel Fuel in presence of Bioadditives
17.	Mungla Mitesh Jethalal	Doctoral	Dynamic Analysis for Identification of Crack Location in Structural / Mechanical Component
18.	Shah Hardik Satishchandra	Doctoral	Studies on Improvement in Environmental Scenario through Water Quality Trading under Indian Conditions
19.	Fataniya Bhupendra Damjibhai	Doctoral	Remote Sensing and Image Processing (Super Resolution)
20.	Patel Dhavalkumar Karshanbhai	Doctoral	Cognitive Radio and Mimo Communication
21.	Trivedi Dishang Dinkarrai	Doctoral	Solutions to some Power System Issues Employing State Estimation and Wide Area Measurement Techniques
22.	Mehta Sujata Hemprakash	Doctoral	Structural Health Monitoring and/or Structural Control
23.	Bora Leena Vijaykumar	Doctoral	Development of Waste Treatment Process using Solar Energy
24.	Ban Gaurangkumar Hazariban	Doctoral	Studies on Emissions of PM 2.5 and PM10 from the Coal Fired Boilers

25.	Mehta Chintan Rajeshkumar	Doctoral	Renewable Energy Sources Integration in Conventional Grid System
26.	Patel Hiteshkumar Harjivanbhai	Doctoral	Thermal Performance Enhancement of Compressed Air System of Oil Flooded Screw Compressors
27.	Patel Nital Sanjay	Doctoral	Modelling, Simulation, Estimation and Control for Press Systems
28.	Narasimha Reddy Ravuru	Doctoral	Hydrogen Production from Glycerol via Catalytic Steam Reforming
29.	Patel Rohit Bhimjibhai	Doctoral	Performance Analysis and Simulation of Fiber Optic Network with different Optical Network Components
30.	Vanzara Rakeshkumar D	Doctoral	Performance Enhancement Proxy for Heterogenous Networks
31.	Zadfiya Rajeshbhai Labhubhai	Doctoral	Advanced Process Control
32.	Nilesh Dhirajlal Ghetiya	Doctoral	Experimental Investigation into the Friction Stir Welding of Aluminium Alloy
33.	Mehta Sandip Anilbhai	Doctoral	Fractional Order Systems and Fractional Order Controller
34.	Bhatasana Piyushkumar Maganlal	Doctoral	RF MEMS RF Circuit Design RF MEMS Sensors
35.	Modi Kiritkumar J.	Doctoral	Use of Semantic Web Approach for Effective Web Services
36.	Jain Sanjay Kumar Virendra	Doctoral	Experimental and Numerical Investigations on Pump running in Turbine mode for Micro Hydropower Plants
37.	Sachin Gajjar	Doctoral	Protocol Development for Wireless Sensor Networks
38.	Arundhati Misra	Doctoral	Advanced Processing Technique Development for Operational Microwave Sensors' Data Handling
39.	Soni Bhavna Devang	Doctoral	Studies on Electrochemical Treatment Application of Mixed Metal Anodes for the Removal of Reactive Black-5 Dye from Aqueous Solution
40.	Saiyad Mamta Mainak	Doctoral	Development and Characterization of Radiation Hardened Epoxy based Polymer Composite for Electronic Device Packing
41.	Nimish Rajnikant Shah	Doctoral	Development of Polymer for Modified Drug Delivery

42.	Parag Anilkishore Saxena	Doctoral	Prediction of Properties of Biodiesel and Blends of Biodiesel
43.	Sonal Shankerlal Kotak	Doctoral	Evaluation of Short and Long term Properties of Fly Ash and Granulated Blast Furnace Slag based Geopolymer Concrete for Civil Engineering Applications
44.	Ashokkumar A. Tiwari	Doctoral	Rheological Performance of Cement Paste with Mineral Admixtures
45.	Trivedi Pratik Pravinkumar	Doctoral	Object Recognition Algorithms
46.	Ukani Vijaykumar Shantilal	Doctoral	Cross Layer Optimization in Wireless Multimedia Sensor Network
47.	Khairnar Vaishali Dinesh	Doctoral	Study of Reliability Issues for Communication Protocols in Vehicular Ad-hoc Networks
48.	Malek Mohammedikram M.	Doctoral	CMOS Analog Multiplier
49.	T. V. S. Ram	Doctoral	R & D Leon3 Processor for Space Applications
50.	Kalpesh Pathak	Doctoral	Application of Advanced Control Strategies for Nonlinear Processes
51.	Varinder Kumar	Doctoral	Development of Seismic Retrofit Methodology for Deficient Reinforced Concrete Buildings
52.	Valiveti Sharada R.	Doctoral	Enhancing Security with Effective Routing Mechanisms in Ad Hoc Networks
53.	Patel Sanjay P	Doctoral	Enhancing Performance of Pattern Mining Methods
54.	Thakkar Priyank B.	Doctoral	Enhancing Performance of Recommender Systems
55.	Raval Gaurang A.	Doctoral	Optimization of Clustering and Convergecasting Methods in Wireless Sensor Networks
56.	Mahesh Hasmukhbhai Panchal	Doctoral	Mining Genome Data using AI Techniques
57.	Nileshkumar M Gambhava	Doctoral	Web Mining using Soft Computing
58.	Gopi B Sanghani	Doctoral	Applications of Artificial Intelligence: Machine Learning Techniques for Text Mining.

59.	Tushar Hematlal Bhoraniya	Doctoral	Evaluation and Modelling of Damping in Reinforce Concrete Structures
60.	Dineshkumar Jethalal Prajapati	Doctoral	Mining Multilevel Association Rule Mining using Soft Computing
61.	Salunke Prashant Gorakhnath	Doctoral	Survivable Optical Network
62.	Nimkar Samir Chandrakant	Doctoral	Energy Analysis for the Chemical Process Improvement to save Energy, Environment & Resources
63.	Oza Virang Hareshchandra	Doctoral	Performance Analysis of Solar Refrigeration System
64.	Vaghela Hitensinh Baldevsinh	Doctoral	Studies on Forced Flow Cryogenic Cooling in Fusion Research Application
65.	Makhesana Mayurkumar Ashwinbhai	Doctoral	Solid Lubricants and Machining
66.	Shah Ankit Kiritkumar	Doctoral	Model based Control of Hybrid Nonlinear Dynamical System
67.	Ankit Sharma	Doctoral	Design & Implementation of Vision based Optimized Automation System using Soft Computing
68.	Parveen Kumar Atrey	Doctoral	Design and Development of Microwave Interferometer and Reflectometer systems as Tokamak Plasmas Diagnostics
69.	Shailendra Singh	Doctoral	Investigation of Different Microwave Harmonic Mixing Concepts and their Applications

40. ***Number of post graduate and Ph.D. students getting financial assistance from the university:***

Year	Number of M.Tech. Students	Ph.D. Students
2013-14	163	03

41. ***Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:***

Yes, the need assessment exercise was undertaken before the development of a new programme. The process of introducing new programmes is as follows:

- Programmes offered by IITs and other reputed engineering colleges both in India and abroad are continuously scanned to identify new programmes and their curricula. Information is also collected from the experts from alumni members, industry and academia.

- After the primary need analysis, the concerned department prepares draft structure and curriculum of the programme through brain storming in various departmental committee meetings.
- The programme structure and curriculum are then discussed in the Board of Study meetings followed by discussions in the Faculty of Technology and Engineering and Academic Council, before seeking the final approval.

A new PG programme M.Tech. in EE/ME/CH Engineering (Energy System) was started from the Academic Year 2013-14.

42. ***Does the department obtain feedback from***

a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The department has an area (specialization) specific group, headed by an Area In-charge. The Area In-charge (chair) regularly meets the faculty of the group, discusses and identifies the need of syllabus revision, teaching and learning, evaluation, laboratory development, etc. Based on the arising needs, area in-charge proposes to have curriculum revision/teaching – learning and evaluation for particular course(s). Depending upon the case(s), the faculty members are involved in curriculum design.

b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The department and institute follow two important practices:

- Informal feedback from students before mid of the semester to find the course and curriculum progression is smooth and there is no problem in teaching learning aspects. In case if students raise any serious problem, the concerned faculty is suggested to take the corrective measure.
- There is a formal practice of taking feedback from students towards the end of the semester. The students give their feedback about the faculty and teaching-learning and evaluation.

Towards the end of the programme, the students give their feedback on the curriculum, infrastructural facility, etc.

c) alumni and employers on the programmes offered and how does the department utilize the feedback?

The feedback from the alumni, employers and industries are regularly invited and departments take them positively. Such suggestions are shared with area in-charge for curriculum improvement, laboratory development, student personality development and improving teaching learning processes. Also, based on the suggestions industry experts are invited for specific topics, students are sent for industry visits / projects etc.

43. **List the distinguished alumni of the institute (maximum 10)**

Sr. No.	Name of the Alumni	Programme of Study at the Institute	Present Designation of the Alumni
1.	Mr. Shail Chudgar	Chemical Engineering Department	Director, Intas Pharmaceuticals Ltd
2.	Mr. Prahar Anjaria	Mechanical Engineering	Executive Director, PRATHAM Educare Private Ltd.
3.	Mr. Nitin Goraiya,	Mechanical Engineering	Managing Director, AB Hydromatics Pvt. Ltd
4.	Mr. Kaushal Patel	MCA	Director (i) Kunj Services Pvt Ltd, and (ii) Kunj Financial Consultant Pvt Ltd., Ahmedabad
5.	Mr. Pranav Mistry	Computer Engineering	Director of Samsung Research
6.	Mr. Gaurav Mathey	Electrical Engineering	Silicon Failure Analysis Engineer, Qualcomm Inc., San Deigo, USA
7.	Mr. Heer Gandhi	Electronics Engineering	Owner and Partners at Wired In, Robokits India, Dazzle Robotics Pvt. Ltd.
8.	Mr. Aditya Sharma	Electronics Engineering	IES, Manager BSNL, Ahmedabad
9.	Mr. Murtaza Gandhi	Instrumentation and Control Engineering	Manager, Baker Engineering & Risk Consultants in Houston, USA
10.	Mr. Utsav D. Shah	Civil Engineering	Director, Dacon Consultants Pvt. Ltd., Ahmedabad

44. **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**

The Institute organizes regularly expert lectures / workshops in various discipline of engineering for benefit of the students. During the assessment period five hundred twenty such programmes were arranged. Moreover, several enrichment courses are introduced in the structure of the curriculum.

The details will be provided to the peer team at the time of visit as Annexure– XIII.

45. ***List the teaching methods adopted by the faculty for different programmes:***

Experiential Learning is the core of all the teaching methods adopted across all the programmes. The entire teaching-learning and evaluation process is aimed at achieving distinct learning outcomes amongst all the students graduating from the various programmes. The following is the list of such tools adopted across the institute,

- Explanation of Concepts through Real Life Practical Examples
- Displaying Topic/Course related videos in the classroom
- Demonstrating Practical Devices/Instruments in the classroom for the courses not having laboratory components
- Use of NPTEL Videos
- Discussion through Blogs for each and every course to ensure 24 x 7 learning
- Chalk and Talk
- Presentations
- Multimedia Presentations
- Video Lectures
- Models
- Posters
- Project based Learning
- Learning through Seminars and Case Studies
- Virtual Labs
- Spoken Tutorials

46. ***How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?***

The Institute has recently introduced Outcome Based Education (OBE). The Institute monitors the Programme Objectives and Learning Outcomes by Continuous Evaluation Methodology with the help of the following tools:

- Class Tests
- Sessional Examination
- Special Assignment
- Seminars and Project Reviews
- Semester End Examination

Further, other modalities are also in place to ensure that Programme Objectives are constantly met and Learning Outcomes are monitored such as:

- Informal Feedback about teaching – learning process during mid of semester
- Formal on-line feedback in a well-structured manner
- Academic Counselling by Faculty Advisor and Faculty Counsellor
- Feedback from recruiting industries about student performance

47. ***Highlight the participation of students and faculty in extension activities*****Extension Activities carried out by the Institute of Technology:**

- Number of Activities: 25
- Number of students participated: 623
- Number of faculty member participated: 27

Extension Activities carried out by Student Associations:

- Number of Activities Conducted: 80
- Number of students participated: ~7281
- Number of faculty members participated: ~229

Activities where faculty or Students have participated as Volunteers:

- Number of Activities: 2
- Number of students participated: 65
- Number of faculty members participated: 4

The details will be provided to the peer team at the time of visit as Annexure– XIV.

48. ***Give details of “beyond syllabus scholarly activities” of the department***

In the Institute, all the students are motivated to participate in various competitions organized by various institutes/organization across the Nation. They have won many prestigious prizes like won the ROBOCON event 6 times and represented the country at International level, SAE BAJA event, etc. Further, technical festival NUTECH is being organized every year from 2012 to encourage the students to enhance the technical skills. Thus, the institute campus is continuously vibrant with following beyond syllabus scholarly activities:

- Technical Competitions
- Value Added Courses
- Knowledge Sharing Sessions
- GATE-Preparation and Guidance
- Project Exhibitions
- Societal Activities
- Special Audit Courses/MOOCs/NPTELs
- Expert Lectures/Site Visits
- Paper Presentations
- Participation in National Level Technical Events
- Professional Development Courses
- MoUs for Collaborative Research Projects for PG Dissertation
- Project Exhibitions

49. ***State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.***

The Institute is frequently ranked amongst top Engineering Colleges by various magazines - Outlook, India Today, The Week, Career 360, DataQuest, etc. Moreover, the Fee Regulatory Committee (FRC) of Government of Gujarat has put the institute in ‘Top Bracket’ - the highest category.

50. ***Briefly highlight the contributions of the department in generating new knowledge, basic or applied.***

The Institute has been instrumental in generating new knowledge which can be analysed through the following list which provide overview of such activities:

- The students are encouraged for paper & poster presentations in the conferences and seminars in and outside the University.
- M. Tech. and Ph.D. students prepare and submit dissertation/ thesis under the guidance of a faculty member. Thesis is a part of repository of Institute Library.
- Received 4 times ISTE best M. Tech. thesis awards, and 2 times L & T best M. Tech. Thesis Awards
- It is mandatory for the Ph.D. students to publish two research papers in peer reviewed journals.
- The faculty members contributing in generating knowledge through publishing papers, books, book chapters, patents and guiding students for their dissertation.

51. ***Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.***

Major Strengths:

1. Excellent Local and Regional reputation with well-established National Recognition
2. Young, dynamic and dedicated faculty and staff members aligned with Institutional Goals
3. Learner Centric Approach along with personalized attention to the students
4. Well placed closed-loop feedback system for Curriculum Development encompassing all the stake holders
5. ICT Usage for enhancing various Academic Accomplishments

Major Weaknesses:

1. Large Proportion of senior faculty members with Limited Industry and Research Exposure
2. Increasing Proportion of new faculty members with limited teaching experience
3. Minuscule Interdisciplinary Programmes and Research
4. Relatively High Administrative Load on senior faculty members
5. Inadequate promotion of Sports, Wellness, Societal and Cultural Activities

Major Opportunities:

1. Placed in well-connected Geographical Location and Growing Industrial Hub
2. Increasing Demands of Technical Manpower because of Infrastructural Growth and Globalization
3. Collaboration with Indian and Foreign Institutions of Repute for Benchmarking, Research and Academic Activities
4. Recognition of faculty members as fellows of national and international academic and professional societies / bodies
5. Emphasis on nurturing the talent of the students and grooming them for

competitive exams, higher studies and industry readiness / employability

Major Challenges:

1. Establishment of educational institutions of repute in the vicinity providing local, regional and global competition
2. Attracting and retaining experienced faculty members and developing wide spectrum of expertise across the disciplines
3. Lack of sufficient number of quality students in the post graduate programmes with strong interest in engineering
4. To get adequate number of full-time motivated Ph.D. students for enhanced research outcome
5. Rapid changes in all the areas of technology and correspondingly changing expectations from industry and society

52. ***Future plans of the department***

- The Institute of Technology visualizes becoming a leading institute with its position among top most institutes of the country
- To strengthen linkages with reputed industry and academia
- To establish Research Laboratories/Centres in different areas of Department Expertise
- To enhance the funding for Research Projects

ANNEXURE – I

Faculty Profile (Institute of Technology)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of M. Tech. / M.Phil. Students guided from 2010	No. of Ph.D. Students Guided from Year 2010
1.	Dr Ketan Kotecha	Ph.D.	Director	Machine Learning and Computer Algorithms, Academic Research Development	19	18	06
Department of Chemical Engineering							
2.	Dr. Sanjay Patel	Ph.D.	Professor & Head (Chemical Engg.)	Hydrogen Energy, Bio Fuels, Heterogeneous Catalysis,	17	13	01
3.	Dr. Jayesh Ruparelia	Ph.D.	Professor	Advanced Oxidation Technologies for Treatment of Industrial Effluents, Environmental Audit	17	12	01

4.	Dr. Raju Mewada	Ph.D.	Associate Professor	Catalysis and Reaction Engineering,	14	12	--
5.	Dr. Milind Joshipura	Ph.D.	Associate Professor	Phase Equilibrium Thermodynamics	12	09	--
6.	Dr. Parin Shah	Ph.D.	Associate Professor	Green Chemistry and Green Technology	14	07	--
7.	Dr. Femina Patel	Ph.D.	Associate Professor	Heterogeneous Catalysis, Automotive Emission Control	13	08	--
8.	Prof. Nimish Shah	M.E. Pursuing Ph.D.	Associate Professor	Polymer Technology	14	05	--
9.	Dr. Shibu Pillai	Ph.D.	Assistant Professor	Polymer, Heterocyclic chemistry, Metal Complexation	08	--	--
10.	Prof. R.N.Reddy	M.Tech. Pursuing Ph.D.	Assistant Professor	Catalysis	14	06	--
11.	Prof. Leena Bora	M.E. Pursuing Ph.D.	Assistant Professor	Photocatalysis	08	01	--
12.	Prof. Priya Saxena	M.Tech. Pursuing Ph.D.	Assistant Professor	Advanced Wastewater Treatment, Modelling and Simulation	06	03	--
13.	Prof. Nikita Chokshi	M.E. Pursuing Ph.D.	Assistant Professor	Waste Water Treatment, Advanced Oxidation Processes,	10	03	--

14.	Prof. Parag Saxena	M.E. Pursuing Ph.D.	Assistant Professor	Catalysis	10	04	--
15.	Prof. Sandip Sharma	M.E. Pursuing Ph.D.	Assistant Professor	Wastewater Engineering, Advance Oxidation Processes	05	04	--
16.	Prof. Neha Patni	M.Sc., M.Phil. Pursuing Ph.D.	Assistant Professor	Biofuels, Polymer Science	08	--	--
17.	Dr. Ankur Dwivedi	Ph.D.	Assistant Professor	Industrial Analytical Chemistry	12	--	01
18.	Prof. Ronak Patel	M.Tech. Pursuing Ph.D.	Assistant Professor	Process Equipment Design and Catalysis	02	--	--
19.	Prof. Jhansi Lakshmi Kishore Mamilla	Ph.D.	Assistant Professor	Heterogeneous Catalysis	07	--	--
Department of Mechanical Engineering							
20.	Dr. Rajesh N. Patel	Ph.D.	Professor & Head (Mechanical Engg.)	Supercritical Fluid Extraction, Energy from Biomass, Turbo Machines	24	35	--
21.	Dr. Vikas J. Lakhera	Ph.D.	Professor	Computational and Experimental Heat Transfer	22	32	--

22.	Dr. Kaushik. M. Patel	Ph.D.	Professor	Manufacturing Processes and Analysis	23	32	--
23.	Dr. Bharat A. Modi	Ph.D.	Professor	Manufacturing Processes, Advanced Metal Forming, Industrial Automation, Powder Metallurgy	23	23	--
24.	Dr. Kunal Ghosh	Ph.D.	Adjunct Professor	Aerodynamics	41	02	01
25.	Prof. Reena.R.Trivedi	M.Tech. Pursuing Ph.D.	Associate Professor	MEMS, FEA, CAD, Optimization	20	10	--
26.	Prof. Bimalkumar Mawandiya	M.Tech. Pursuing Ph.D.	Associate Professor	Supply Chain Management, Inventory Management	20	03	--
27.	Prof. Shashikant J. Joshi	M.Tech. Pursuing Ph.D.	Associate Professor	Stress Analysis, Composite Materials, Fracture Mechanics	13	18	--
28.	Prof. Absar M. Lakdawala	M.Tech. Pursuing Ph.D.	Associate Professor	CFD Analysis of Thermal System, Alternate Fuels, Design and Simulation of Thermal Systems	14	19	--
29.	Prof. Niraj K. Shah	M. Tech. Pursuing Ph.D.	Associate Professor	Rarefied Gas Dynamics, CFD	17	19	--

30.	Prof. Sanjay V. Jain	M. Tech. Pursuing Ph.D.	Associate Professor	Analysis of Thermal Systems, Alternate Fuels and I C Engine, Energy Conservation, Thermal Insulation	14	19	--		
31.	Dr. Chetan Mistry	Ph.D.	Associate Professor	Hydraulic Machines, Computational Fluid Dynamics, Renewable Energy Systems	14	01	--		
32.	Prof. Nilesh Ghetiya	M.Tech. Pursuing Ph.D.	Associate Professor	Manufacturing Engineering	13	20	--		
33.	Prof. Jatin M. Dave	M.E. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Stress Analysis, Robotics, Kinematics, Computer Aided Design	12	21	--		
34.	Prof. Darshita J. Shah	M.Tech.	Assistant Professor	CAD/CAM, Fracture Mechanics	14	11	--		
35.	Prof. Vipul Bhojwala	M.Tech. Pursuing Ph.D.	Assistant Professor	Machine Design, Dynamics of Machinery	15	19	--		
36.	Prof. Ashish M. Gohil	M.E.	Assistant Professor	CAD/CAM	10	16	--		
37.	Prof. Mihir Chauhan	M.E. Pursuing Ph.D.	Assistant Professor	Stress Analysis, Robotics, Design	08	11	--		

38.	Prof. Balkrushna A. Shah	M.E.	Assistant Professor	Refrigeration and Air Conditioning, Cryogenic, Alternative Energy Sources	10	12	--		
39.	Prof. Dhaval V. Patel	M.Tech.	Assistant Professor	Machine Design, Finite Element Analysis	05	13	--		
40.	Prof. Dhaval B. Shah	M.Tech. Pursuing Ph.D.	Assistant Professor	Finite Element Analysis, Computer Aided Design, Design and Dynamics	06	11	--		
41.	Prof. Ath S. Singhal	M.Tech.	Assistant Professor	Nanofluids, Heat Exchangers, Thermal Engineering, Automobiles and IC Engines	05	--	--		
42.	Prof. Shruti N. Mehta	M.E.	Assistant Professor	Manufacturing Automation, Mechatronics, Robotics	06	05	--		
43.	Prof. Anand A. Bhatt	M.E.	Assistant Professor	Cryogenics, Alternative Energy Sources, Refrigeration and Air-Conditioning, Fluid Mechanics, Heat Transfer	04	--	--		

44.	Prof. Tejas N. Raval	M.Tech.	Assistant Professor	Performance Improvement of Pumps, Internal Combustion Engines Fluid Mechanics and Fluid Power Engineering,	05	--	--
45.	Prof. Mayur A. Makhesana	M.Tech. Pursuing Ph.D.	Assistant Professor	Materials Processing and Manufacturing, Micro Manufacturing and Finishing Processes	04	05	--
46.	Prof. Mayur A. Fultariya	M.Tech.	Assistant Professor	Solar Thermal System, Heat Transfer, Refrigeration & Air-Conditioning	03	--	--
47.	Prof. Darshit S. Upadhyay	M.Tech. Pursuing Ph.D.	Assistant Professor	Gasification Technology, Renewable Energy	02	--	--
48.	Prof. Nipun P. Raval	M.Tech.	Assistant Professor	Design, Centrifugal Pump, Stress Analysis, CFD	04	--	--
49.	Prof. Hiren M. Prajapati	M.Tech.	Assistant Professor	Design and Dynamics	02	--	--
50.	Prof. Rudreshkumar D. Makwana	M.E.	Assistant Professor	CAD/CAM, Stress analysis	03	--	--

51.	Prof. Keyur P. Hirpara	M.Tech.	Assistant Professor	Robotics, Biomechanics, Mechanical Design	09	--	--
52.	Prof. Saumil Desai	M.E.	Assistant Professor	Machine Tool Design	02	--	--
53.	Prof. Shehbaz Memon	M.Tech. Pursuing Ph.D.	Adhoc Assistant Professor	Thermal Engineering	0.4	--	--
54.	Prof. Vishal K. Mehta	M. Tech.	Adhoc Assistant Professor	Design Engineering	0.4	--	--
55.	Prof. Sudhanshu Kumar Pandey	M.Tech.	Adhoc Assistant Professor	Thermal Engineering	01	--	--
56.	Prof. Vivek Khadalia	M.E.	Adhoc Assistant Professor	IC Engines & Automobiles	04	--	--
Department of Computer Science & Engineering							
57.	Dr. Sanjay Garg	Ph.D.	Professor & Head (Computer Science & Engg.)	Data Mining and Pattern Recognition	18	--	--
58.	Dr. Priyanka Sharma	Ph.D.	Professor	Multimedia Networks, Multicore Computing	16	--	--
59.	Dr. Madhuri Bhavsar	Ph.D.	Sr. Associate Professor	High Performance Computing, Cloud Computing, Software Engineering	20	14	--
60.	Prof. K.P. Agrawal	M.E.	Sr. Associate Professor	Data Mining, Machine Learning and A.I.	26	08	--

61.	Prof. Vibha Patel	Ph.D.	Sr. Associate Professor	Compilers for High Performance Architectures including Multicore Processors, Compiler Design, Code Optimization	15	12	--
62.	Prof. Sharada Valiveti	Ph.D.	Sr. Associate Professor	Network Security	14	20	--
63.	Prof. Gaurang Raval	M.E. Pursuing Ph.D.	Associate Professor	Wireless Sensor Networks, Distributed Computing	16	16	--
64.	Prof. Vijay Ukani	M.Tech. Pursuing Ph.D.	Associate Professor	Wireless Sensor Networks	14	13	--
65.	Dr. Kamal Mehta	Ph.D.	Associate Professor	Low Power System	19	--	--
66.	Prof. Priyank Thakkar	Ph.D.	Associate Professor	Data and Web Mining, Machine Learning	14	09	--
67.	Prof. Ankit Thakkar	Ph.D.	Associate Professor	Wireless Sensor Networks	12	05	--
68.	Dr. Narayan A. Joshi	MCA, Ph.D.	Associate Professor	Operating Systems	12	--	--
69.	Prof. Tejal Upadhyay	M.E. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	--	17	08	--
70.	Prof. Swati Jain	M.Tech. Pursuing Ph.D.	Assistant Professor	Image Processing Machine	10	--	--

					Learning			
71.	Prof. Zunnun Narmawala	M.Tech. Pursuing Ph.D.	(Associate Professor)* Assistant Professor (Associate Professor)*	Information and Communication Technology	12	18	--	--
72.	Prof. Saurin Parikh	MCA Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Java Technology	15	18	--	--
73.	Prof. Sonia Mittal	MCA Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Multimedia Processing	16.5	--	--	--
74.	Prof. Deepika Shukla	MCA Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Digital Image Processing	17	--	--	--
75.	Prof. Monika Shah	M.E. Pursuing Ph.D.	Assistant Professor	High Performance Computing	14	--	--	--
76.	Prof. Rupal Kapdi	M.E. Pursuing Ph.D.	Assistant Professor	Digital Image Processing	12	03	--	--
77.	Prof. Manish Chaturvedi	M.Tech. Pursuing Ph.D.	Assistant Professor	ICT	11	07	--	--
78.	Prof. Vipul Chudasama	M.E. Pursuing Ph.D.	Assistant Professor	Artificial Intelligence	10	07	--	--
79.	Prof. Anitha Ashishdeep	B.E. Pursuing M.Tech.	Assistant Professor	Networking	09	--	--	--
80.	Prof. Pooja Shah	M.Tech. Pursuing Ph.D.	Assistant Professor	Image processing, Networking	09	04	--	--

81.	Prof. Jitendra Bhatia	M.Tech. Pursuing Ph.D.	Assistant Professor	Computer Networks	10	03	--
82.	Prof. Vishal Parikh	M.Tech.	Assistant Professor	Computer Networks	09	--	--
83.	Prof. Jigna Patel	M.E. Pursuing Ph.D.	Assistant Professor	Data Mining	06	04	--
84.	Prof. Prajakta Rathod	M.E.	Assistant Professor	Programming Languages, DBMS	06	04	--
85.	Prof. Jitali Patel	M.E. Pursuing Ph.D.	Assistant Professor	Artificial Intelligence	06	--	--
86.	Prof. Kruti Lavingia	M.E.	Assistant Professor	Software Engineering	06	--	--
87.	Prof. Pimal Khanpara	M.Tech.	Assistant Professor	Wireless Networks	02	--	--
88.	Prof. Tarjini Vyas	M.Tech. Pursuing Ph.D.	Assistant Professor	Natural Language Processing	03	02	--
89.	Prof. Shivani Desai	M. Tech.	Assistant Professor	Wireless Sensor Networks	02	--	--
90.	Prof. Dhaval Jha	M.Tech.	Assistant Professor	Theoretical Computer Science	03	05	--
91.	Prof. Vivek Kumar Prasad	M.Tech.	Assistant Professor	PPDM and Distributed Computing	07	--	--
92.	Prof. Ajay Patel	M.Tech.	Assistant Professor	Computer Networks	08	--	--
93.	Prof. Jaladhi Vyas	M.Tech.	Assistant Professor	Information and Communication Technology	01	--	--
94.	Prof. Anitha Modi	M.E.	Adhoc Assistant Professor	Data Mining	06	--	--

95.	Prof. Preksha Pareek	M.Tech.	Adhoc Assistant Professor	Neural Network	01	--	--
96.	Prof. Punit Saswadkar	M.Tech.	Adhoc Assistant Professor	Network Management & Information Security	01	--	--
97.	Prof. Anuja Nair	M.Tech.	Adhoc Assistant Professor	Distributed Database, Hadoop, MapReduce	02	--	--
98.	Prof. Sapan Mankad	M.Tech.	Assistant Professor	Data Mining	10	05	--
99.	Prof. Usha Patel	M.Tech	Assistant Professor	Image processing	10	--	--
100.	Prof. Darshana Upadhyay	M.Tech.	Assistant Professor	Embedded System	09	--	--
101.	Prof. Parita Oza	M.Tech.	Assistant Professor	WSN	10	--	--
102.	Prof. Malaram Kumhar	M.Tech.	Assistant Professor	WMSN	08	--	--
103.	Prof. Sharnil Pandya	M.S.(IT) Pursuing Ph.D.	Assistant Professor	WSN	05	--	--
104.	Prof. Dvijesh Bhatt	M.Tech.	Assistant Professor	Data Mining	02	--	--
105.	Prof. Daiwat Vyas	M.Tech.	Adhoc Assistant Professor	CSE- Networking Technologies, Robotics Technology Development	3.5	--	--
106.	Prof. Smita Agrawal	MCA	Assistant Professor	Parallel Processing, Object Oriented	10	--	--

107.	Prof. Rasendu Mishra	MCA	Assistant Professor	Analysis and Design Software Engg, MIS, SAD, OOP, Compiler Construction, Data Warehousing and Data Mining	10	--	--	
108.	Prof. Preeti Kathiria	MCA	Assistant Professor	Data Warehousing and Mining	13	--	--	
109.	Prof. Jai Prakash Verma	MCA Pursuing Ph.D.	Assistant Professor	Big Data Analysis	9.5	--	--	
110.	Prof. Devendra Vashi	MCA Pursuing Ph.D.	Assistant Professor	Data Mining	9.3	--	--	
111.	Prof. Rushabh Shah	MCA Pursuing Ph.D.	Assistant Professor	Digital Image Processing	13	--	--	
112.	Prof. Rajan Datt	MCA Pursuing Ph.D.	Assistant Professor	Web Service	13	--	--	
Department of Civil Engineering								
113.	Dr. Paresh V. Patel	Ph.D.	Professor & Head (Civil Engg.)	Structural Engineering	21	23	--	
114.	Dr. Urmil V. Dave	Ph.D.	Professor	Civil- Structural Engineering	18.5	22	--	
115.	Dr. Parul R. Patel	Ph.D.	Professor	Geodesy and Geomatics	23	02	--	
116.	Dr. Sharad P. Purohit	Ph.D.	Professor	Structural Engineering	17	18	--	
117.	Prof. Santosh S. Kolte	Ph.D.	Associate Professor	Environmental Engineering	23.25	--	--	

118.	Prof. Sonal.P. Thakkar	Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Structural Engineering	16	04	--
119.	Prof. Jahnavi M Suthar	M.E. Pursuing Ph.D.	Assistant Professor	Structural Engineering	08	03	--
120.	Prof. Pratima Singh	M.S., M. Tech.	Assistant Professor	Geomatics, Urban Planning	19.5	--	--
121.	Prof. Digesh Joshi	M.Tech. Ph.D. (Pursuing)	Assistant Professor	Structural Engineering	4.5	03	--
122.	Prof. Tarak Bhatt	M.E.	Assistant Professor	Environmental Engineering	21	--	--
123.	Prof. Tejas M. Joshi	M.Tech. Pursuing Ph.D.	Assistant Professor	Structural Engineering	3.5	01	--
124.	Prof. Utsav Koshti	M.Tech.	Assistant Professor	Structural Engineering	04	--	--
125.	Prof. Divya K. Bhatt	M.Tech.	Assistant Professor	Water Resources Engineering	1.5	--	--
126.	Prof. Hemang Dalwadi	M.Tech.	Assistant Professor	Transportation	03	--	--
127.	Prof. Payal V. Mehta	M.Tech.	Assistant Professor	Structural Engineering	11	--	--
128.	Prof. Rahul I. Shah	M.Tech.	Assistant Professor	Structural Engineering	07	--	--
129.	Prof. Hemanth Kamplimath	M.Tech.	Adhoc. Assistant Professor	Highway Technology	1.5	--	--
Department of Electronics & Communication Engineering							
130.	Dr. D. K. Kothari	Ph.D.	Professor	Optical Communication and Networking	30	14	--

131.	Dr. N. M. Devasharyee	M.	Ph.D.	Professor	VLSI Design	36	27	05
132.	Dr. Dhaval Pujara		Ph.D.	Professor	Antenna Design	17	10	--
133.	Dr. Usha Mehta		Ph.D.	Professor	VLSI Design and Test	19	24	--
134.	Dr. N. P. Gajjar		Ph.D.	Professor	Embedded and VLSI Design	25	18	-
135.	Dr. Y. N. Trivedi		Ph.D.	Professor	Wireless Communication	18	10	--
136.	Prof. M. A. Upadhyay		M.E. Pursuing Ph.D.	Sr. Associate Professor	Wireless Communication	17	10	--
137.	Dr. T. H. Zaveri		Ph.D.	Associate Professor	Image and Video Processing	15	10	--
138.	Dr. Amisha Naik		Ph.D.	Associate Professor	Analog VLSI Design	15	03	--
139.	Prof. Sachin Gajjar		M.Tech. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Computer Technology	15	06	--
140.	Prof. Mehul R. Naik		M.E. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	RF Circuit Design, Communication System Design	21	--	--
141.	Prof. Jayesh Patel		M.Tech. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	VLSI Design	18	--	--
142.	Prof. Piyush Bhatasana		M.Tech. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Microelectronics, VLSI Design	12	--	--
143.	Prof. Vaishali Dhare		M.Tech. Pursuing Ph.D.	Assistant Professor	VLSI Design	14.5	01	--

144.	Prof. Aakash Meewan	M.Tech. Pursuing Ph.D.	Assistant Professor	VLSI Design	9.5	01	--
145.	Prof. Vijay Savani	M.Tech. Pursuing Ph.D.	Assistant Professor	VLSI Design	14	08	--
146.	Prof. Dhaval Shah	M.Tech. Pursuing Ph.D.	Assistant Professor	Communication Engineering	07	08	--
147.	Prof. Rachna Sharma	M.Tech.	Assistant Professor	Wireless Communication	07	--	--
148.	Prof. Ami Shukla	M.Tech.	Assistant Professor	Computer Science	12	--	--
149.	Prof. B. D. Fataniya	M.E. Pursuing Ph.D.	Assistant Professor	Communication Engineering	08	01	--
150.	Prof. Dipesha Panchal	M.Tech.	Assistant Professor	VLSI DESIGN	08	--	--
151.	Prof. Ruchi Gajjar	M. Tech. Pursuing Ph.D.	Assistant Professor	Communication Systems Engineering	4.5	--	--
152.	Prof. Aarti Gehani	M.Tech. Pursuing Ph.D.	Assistant Professor	Communication Systems	3.5	--	--
153.	Prof. Amit Degada	M.Tech.	Assistant Professor	Communication Systems	04	02	--
154.	Dr. Ankur Pandya	Ph.D.	Assistant Professor	Condensed Matter Physics	06	02	--
155.	Dr. Chetna Chauhan	Ph.D.	Assistant Professor	Materials Science, Nanoscience	06	--	--
156.	Prof. Hardik Joshi	M.E.	Assistant Professor	Wireless Communication	04	--	--
157.	Prof. Twinkle Bhavsar	M.E.	Assistant Professor	Wireless Communication	06	--	--
158.	Prof. Khyati Vachhani	M.E.	Assistant Professor	Electronics and Communication	03	--	--

159.	Prof. Bhavin Kakani	M.E.	Assistant Professor	Electronics and Communication	02	--	--
160.	Prof. Ashita Chandnani	M.Tech.	Adhoc Assistant Professor	Microelectronics	02	--	--
161.	Prof. Rina Parikh	M.Tech.	Adhoc Assistant Professor	Communication Engineering	11	--	--
Department of Instrumentation & Control Engineering							
162.	Prof. D. M. Adhyaru	M.Tech., Ph. D.	Section Head and Professor (IC)	Control Engineering, Soft Computing Techniques	19	12	--
163.	Prof. J. J. Barve	M.Tech. Ph. D.	Professor	Industrial Controls, Process Control, Control Theory, Interval Maths, Navigation & Control	25	09	--
164.	Prof. J. B. Patel	M.Tech. Pursuing Ph.D.	Associate Professor	Process Control, Decision Support Systems, Control Engineering	19	11	--
165.	Prof. H. K. Patel	M.Tech. Pursuing Ph.D.	Associate Professor	Sensors & Transducers, Biomedical Instrumentation, Power Electronics	22	10	--
166.	Prof. S. A. Mehta	M.Tech. Pursuing Ph.D.	Assistant Professor	Fractional Order Control, Factory Robotics, Factory Automation	12	10	--

167.	Prof. J. B. Shah	M.Tech. Pursuing Ph.D.	Assistant Professor	Microelectronics, Digital VLSI	12	09	--
168.	Prof. Vishal Vaidya	M.Tech.	Assistant Professor	Robotics & Artificial Intelligence	06	--	--
169.	Prof. Vidita Tilva	M.Tech.	Assistant Professor	Process Control	08	--	--
170.	Prof. R. L. Zadfiya	M.Tech. Pursuing Ph.D.	Assistant Professor	Advanced Process Control and Optimization Techniques	04	09	--
171.	Prof. N. S. Patel	M.E. Pursuing Ph.D.	Assistant Professor	Process Instrumentation and Control, Soft Sensor	06	06	--
172.	Prof. A. K. Sharma	M.Tech. Pursuing Ph.D.	Assistant Professor	Image Processing, Soft Computing, Biomedical Instrumentation	05	05	--
173.	Prof. A. I. Patel	M.E.	Assistant Professor	Advance Process Control , Applied Instrumentation , Industrial Automation	04	04	--
174.	Prof. Harsh Kapadia	M.Tech.	Assistant Professor	Image Processing, Machine Vision	03	04	--
175.	Prof. Anuradha Tandon	M.Tech.	Assistant Professor	Biomedical Instrumentation, Digital Signal Processing	10	03	--

176.	Prof. Mahavirsinh Gohil	M.Tech.	Assistant Professor	Applied Instrumentation, Process Control, Automation	03	02	--
177.	Prof. Divesh Raninga	M. Tech.	Adhoc Assistant Professor	Process Control and Instrumentation	0.5	--	--
Department of Electrical Engineering							
178.	Dr. P. N. Tekwani	Ph.D.	Professor and Head (Electrical Engg.)	Power Semiconductor Switches, Power Electronic Converters, Induction Motor Drives, Harmonics, Active Power Filters, Power Quality, Power Supplies (SMPS, UPS)	19	18	01
179.	Prof. U. A. Patel	M.E.	Professor	Automation and Control, Power System	42	--	--
180.	Dr. S. C. Vora	Ph.D.	Professor	High Voltage Engineering, Electrical Power Systems	16	16	--
181.	Prof. Amit. N. Patel	M.E. Pursuing Ph.D.	Assistant Professor (Associate Professor)*	Advanced Electrical Machines	13	10	--

182.	Prof. Tejas. H. Panchal	H.	M.E.	Assistant Professor	Electrical Machines and Drives, Advanced Electrical Machines	10	10	--
183.	Prof. Manisha. T. Shah	T.	M. Tech., Pursuing Ph.D.	Assistant Professor	Power Electronic Converters and their Applications, Power Quality Issues and their Mitigation Techniques	09	11	--
184.	Prof. P. N. Kapil		M. Tech. (Pursuing Ph.D.)	Assistant Professor	Power Electronic Converters and Inverters, Advanced Electrical Machines and Electrical Drives	06	13	--
185.	Prof. Swapnil. N. Jani		M. Tech.	Assistant Professor	Electrical Machines, Testing & Commissioning of Electrical Machines, Electrical Drives	06	09	--
186.	Prof. Chanakya. B. Bhatt	B.	M. Tech.	Assistant Professor	HVDC, FACTS, Power Electronics, Battery Management Systems	10	09	--

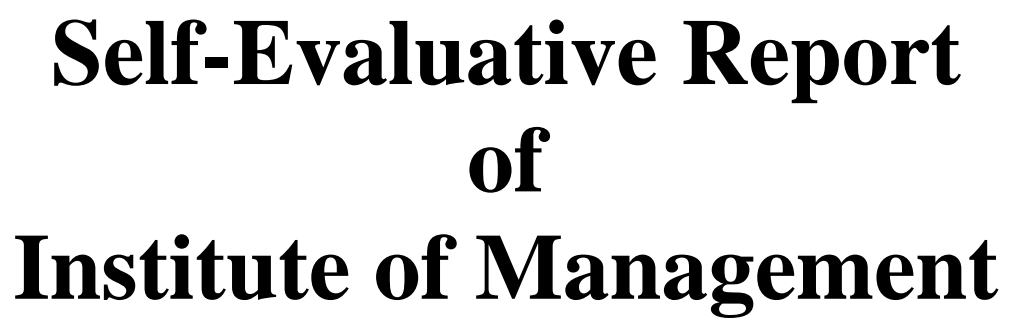
187.	Prof. Sarika. S. Kanojia	M. Tech.	Assistant Professor	Electrical Power Systems, Power System Protection and Switchgear, Renewable Energy Sources Integration in Grid, Power System Operation and Control	09	07	--
188.	Prof. Chintan. R. Mehta	M.E., (Pursuing Ph.D.)	Assistant Professor	Electrical Power System, Renewable Energy Sources Integration in Grid, Power Quality Issues, Energy Management	12	12	--
189.	Prof. Mihir C. Shah	M. Tech.	Assistant Professor	Power Electronics, Power Quality, Digital Signal Processors	03	05	--
190.	Prof. Shanker Godwal	M. Tech.	Assistant Professor	Power System Protection, Power System Stability	07	05	--
191.	Prof. Dhara Mehta	M.E.	Assistant Professor	Renewable Energy, Power Quality, Smart Grid	03	02	--

192.	Prof. Gaurang B. Buch	M.E.	Adhoc Assistant Professor	Economics and Optimization in Power System, Power System Protection,	04	04	--
193.	Prof. Divyesh J. Vaghela	M.E.	Assistant Professor	Design and Development of Power Electronics Drives, Electrical Machines, Digital Control of Electrical Machine	03	--	--
194.	Prof. Hemang. S. Pandya	M.E.	Assistant Professor	Demand side Management in Smart Grid Technology, Distributed Renewable Generators, Design & Analysis of Advanced Electrical Machines	10	03	--
195.	Prof. Vihang Dholakiya	M.Tech.	Assistant Professor	Electrical Power System Analysis	04	02	--
196.	Prof. Mayur V. Gojiya	M.E.	Assistant Professor	Power System Stability	03	--	--
197.	Prof. Hormaz Amrolia	M.Tech.	Assistant Professor	Machines and Drives	02	01	--

198.	Prof. Sukanta Kumar Sahoo	M.Tech.	Adhoc Assistant Professor	Power Quality, Filters, Power Factor Corrections	02	--	--
Department of Maths and Humanities							
199.	Prof. Kunal Pathak	M.Phil. Pursuing Ph.D.	Assistant Professor	Numerical Analysis	08	--	--
200.	Prof. Paramasivan S Vellala	M.A.NET (UGC) Pursuing Ph.D.	Assistant Professor	Development Economics	08	--	--
201.	Dr. Debasis Dangar	Ph.D.	Assistant Professor	Optimization	01	--	--
202.	Prof. Amitayu Chakraborty	MA, UGC-NET-JRF Pursuing Ph.D.	Assistant Professor	English	02	--	--
203.	Prof. Monali Chatterjee	Ph.D.	Assistant Professor	English	13	--	--
204.	Prof. Swati Sehgal	M.A.	Assistant Professor (Adhoc)	German	06	--	--
205.	Prof. Samir K Mahajan	Ph.D., UGC-NET	Assistant Professor	Economics	14	--	--
206.	Dr. Sandeep Malhotra	Ph.D.	Assistant Professor	Applied Mathematics	10	--	--
207.	Prof. Ishan Bhavsar	M.A., UGC-NET, GUJ- SET	Assistant Professor	English Literature	03	--	--
208.	Dr. Richa Mishra	Ph.D.	Assistant Professor	English Literature	09	--	--
209.	Prof. Shaikh Jishan	M. Sc.	Assistant Professor (Adhoc)	Applied Mathematics	03	--	--

210.	Prof. Monika Gupta	M. Sc.	Assistant Professor (Adhoc)	Applied Mathematics	02	--	--
211.	Prof. Payal Oza	M. Sc.	Assistant Professor (Adhoc)	Applied Mathematics	03	--	--
212.	Prof. Dhara patel	M. Sc.	Assistant Professor (Adhoc)	Applied Mathematics	02	--	--
213.	Prof. Ujala Shamnani	M.A.(Gold-Medallist) GUJ-SET	Assistant Professor	English Literature	02	--	--
214.	Prof. Debpriya Goswami	B.A, M.A, UGC-NET, Pursuing PhD	Assistant Professor	English Literature	01	--	--

* All these faculty members were working as Reader or equivalent in pre-revised scale. At the time of pay revision, they could not meet the prescribed criteria on a particular date and hence they were put in AGP of ₹ 8000/=. However, for all practical purpose they are in the second layer of teaching faculty, except Pay Band IV and have been shown under the category of Associate Professor, which is second layer in revision of scale.



**Self-Evaluative Report
of
Institute of Management**

Self-Evaluative Report of Institute of Management

(Assessment Period: January 01, 2010 to February 28, 2015)

1. ***Name of the Institute:***
Institute of Management
2. ***Year of establishment:***
The Institute of Management, earlier known as Nirma Institute of Management, was established in the year 1996.
3. ***Is the institute part of a School/Faculty of the university?***
Yes, The institute is a constituent institution of Nirma University.
4. ***Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)***

Post Graduate Programmes:

MBA (Full-Time)

MBA (Family Business & Entrepreneurship)

BBA-MBA (Five Year Integrated) Programme

Ph. D. Programmes:

Doctoral Programme in Management (Full-Time)

Doctoral Programme in Management (External)

5. ***Interdisciplinary programmes and departments/institutes involved:***
NIL
6. ***Courses in collaboration with other universities, industries, foreign institutions, etc.***
 - Summer Internship with various Organizations
 - Managing Social Projects (MSPs)
 - NGO Internship
 - Live Projects with Various Organizations
7. ***Details of programmes discontinued, if any, with reasons***
The following programme has been discontinued at Institute of Management during the assessment period:

MBA (Part Time):
The programme was discontinued to put more focus on the full-time programmes. Also, there has been a decrease in demand for the part-time programme in the recent years.
8. ***Examination System: Annual/Semester/Trimester/Choice Based Credit System***
Semester – for Undergraduate Programme
Trimester – for Postgraduate Programmes

9. **Participation of the department in the courses offered by other department:**
- Faculty members of the institute serve as visiting faculty at other institutes.
 - Faculty members are invited to judge the various curricular, co-curricular and extra-curricular events of the other institutes.

10. **Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors / others)**

Name of the Post	Sanctioned Post	Filled Post	Actual (including CAS & MPS)
Professor	08	12	12
Associate Professor	20	10	10
Assistant Professor	20	15	15

Additional 07 new faculty members are issued appointment orders recently.

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Currently, the institute has 37 faculty members, out of which 27 faculty members are with Ph.D. qualification.

The details can be found in Annexure-I, attached at the end of this report.

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:**

Sr. No.	Name of the Professor	Qualification	Visiting Fellows / Adjunct Faculty / Emeritus Professors	Period of stay
1	Prof. A.C.Brahmbhatt	M.Sc. (Stat), LL.B., Ph.D.	Adjunct Faculty	1-2-2011 till date
2	Prof. Rajesh Kikani	B.Tech., PGDBM (IIM-A)	Adjunct Faculty	11-8-2014 till date
3	*Prof. Raghuvir J. Modi	Ph.D.	Visiting Faculty	1-9-2009 to 31-8-2014
4	*Prof. Sari A Mattila	Ph.D.	Visiting Faculty	6-1-2010 to 31-3-2014

*Faculty members shown in Sr. No. 3 and 4, were designated as visiting faculty, however, they were very senior and are expert in their areas.

13. **Percentage of classes taken by temporary faculty – programme-wise information:**

Name of the Programme	Percentage of Classes taken by Temporary Faculty in Year 2013-14
MBA	7.80%
MBA(FB&E)	6.38%
BBA-MBA	14.23%

14. **Programme-wise Student Teacher Ratio:**

Name of the Programme	Total No. of Students Enrolled	No. of Teachers' Sanctioned Post	No. of Teachers' Filled	Student-Teacher Ratio (as per Sanctioned Posts)	Student Teacher Ratio (Existing)
MBA	427	28	24	15:1	17:1
MBA(FB&E)	144	12	08	15:1	17:1
BBA-MBA*	125	08	05	15:1	24:1
* This is a new programme introduced last year and the faculty recruitment process is in progress.					

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled**

Name of the Position	Sanctioned Post	Filled Post
Number of Academic Support Staff / Laboratory Staff	20	14
Number of Administrative Staff	39	39

16. **Research thrust areas as recognized by major funding agencies:**

- Public Finance (Municipal Finance)
- Human Development

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Four projects have been completed during the assessment period.

The details will be provided to the peer team at the time of visit as Annexure – II.

18. **Inter-institutional collaborative projects and associated grants received:**

NIL

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Being a statutory private University, the university is not covered under UGC act 12(B); hence it is not eligible for funding from UGC.

20. **Research facility/Centre with (a) state recognition (b) national recognition (c) international recognition:**

Not Applicable for Management Institute.

21. **Special research laboratories sponsored by / created by industry or corporate bodies:**

Not Applicable for Management Institute.

22. ***Publications:***

- International Research Publications: 44
- National Research Publications: 83
- Number of Books Published : 30
- Number of Book Chapters Published : 55

The details will be provided to the peer team at the time of visit as Annexure – III, IV, V and VI.

23. ***Details of patents and income generated:***

In the field of management we do not have patents. However, the institute focuses on consultancy activities.

24. ***Areas of consultancy and income generated:*****List of Areas of Consultancy:**

- E – Governance
- HR- Audit

Income Generated from Consultancy:

Year	Income Generated from Consultancy in ₹ (in Lacs)
Financial Year 2010-11	28.80
Financial Year 2011-12	29.75
Financial Year 2012-13	34.01
Financial Year 2013-14	33.25
Financial Year 2014-15	12.97

25. ***Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:***

The summary for the assessment period is as under:

- 8 faculty members have visited several organizations abroad and
- 18 faculty members have visited several organizations in India.

The details will be provided to the peer team at the time of visit as Annexure– VII.

26. ***Faculty serving in National committees b) International committees c) Editorial Boards d) any other***

During the period 19 faculty members have served as committee members/editorial board members in 43 international and 47 national bodies.

The details will be provided to the peer team at the time of visit as Annexure– VIII.

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**

Faculty Recharging Strategies:

Considering the importance of Faculty and Staff development activities, the University has set-up its own system of 'Faculty Development' under the supervision of a core committee headed by Director General. A senior professor is given charge of organizing and monitoring staff development activities.

The Faculty Development programmes are arranged in four different categories, namely

- i) Induction Training Programme of 4 weeks for newly recruited faculty members before they go for class-room teaching
- ii) Orientation Programme of 2 weeks for teachers having 2-5 years of teaching experience
- iii) Refresher Course of 2 weeks
- iv) Research Orientation of 2 weeks

During the period the institute has organized 11 faculty development programmes on the campus in which about 200 faculty participants from across the country participated. Similarly, about 30 faculty members from our institute have participated in about 102 programmes organized by other organizations.

The details will be provided to the peer team at the time of visit as Annexure– IX.

28. **Student Project:**

Percentage of students who have done in-house projects including inter-departmental projects:

Year	Percentage of Students who have done in-house Projects including Inter-Departmental Projects
2010-11	100 % of MBA (Full Time) students carryout research projects and submit their dissertations as part of the curriculum.
2011-12	
2012-13	
2013-14	Similarly 100 % students of MBA (FB&E) carry out a comprehensive business plan as part of the curriculum.

Percentage of students doing projects in collaboration with other universities industry / institute:

Year	Percentage of Students doing Projects in Collaboration with other Universities / Industry / Institute
2010-11	100% MBA Students do Summer Internship in different industries during the summer break.
2011-12	
2012-13	
2013-14	

29. ***Awards / recognitions received at the national and international level by Faculty and Students***

- 28 awards / recognitions were received by the faculty members, and
- 59 awards were received by the students for their participation in various B-School competitions.

The details will be provided to the peer team at the time of visit as Annexure– X and XI.

30. ***Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any***

The Institute has organized nine international conferences / workshops and fourteen national conferences / workshops.

The details will be provided to the peer team at the time of visit as Annexure– XII.

31. ***Code of ethics for research followed by the departments:***

The Institute follows the Code of Ethics for Research as prescribed by the University. The copy of the same is attached as Annexure– A.

32. ***Student profile programme-wise:***

Name of the Programme	Applications Received (2012-14)	Selected		Pass Percentage 2014	
		Male	Female	Male	Female
MBA(Full-Time)	3722	110	63	99%	100%
MBA (FB&E)	210	68	35	99%	100%

33. ***Diversity of Students (For year 2014)***

Name of the Programme	% of Students from the same University	% of Students from other Universities within the State	% of Students from Universities outside the State	% of Students from other Countries
MBA	2.00%	21.68%	76.30%	NIL
MBA (FB&E)	1.61%	66.12%	31.25%	1.20%

34. ***How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.***

A majority of students opt for placements in the corporate sector or join their family business after they complete the programme. Hence, they do not appear for any of the above competitive examinations.

35. **Student Progression**

Student Progression	Percentage against Enrolled (2012-14)
UG to PG	NA
PG to M.Phil.*	--
PG to Ph.D.*	--
Ph.D. to Post-Doctoral*	--
Employed through Campus Selection	154 (90%)
Employed through other than Campus Recruitment	12 (7%)
Entrepreneurs	06 (3%)

*A majority of the students immediately after completion of the programme join the corporate sector and a few of them also start their own ventures. Some of them may decide to go for the Ph.D. later in their careers but this data is not captured by the institute. All the students of MBA (family business and entrepreneurship) either join their family business or start their own ventures. The MBA (Part Time) students are working executives and they continue working in their existing organization.

36. **Diversity of Staff:**

Percentage of Faculty Member who are Graduated	
From the same University	5.41%
From other Universities within the State	48.65%
From Universities from other States	43.24%
From Universities outside the Country	2.70%

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Eight faculty members have received Ph.D. degree during the assessment period.

38. **Present details of departmental infrastructural facilities with regard to:****Library:**

Library Area: 603.94 sq.mt.

Total number of books (volumes): 30675

Total number of e-books: 617

Database: 14

e-journals: 10000

Open source software: KOHA

- Leading national and international business periodicals
- Impressive collection of digitized corporate annual reports and CDs / DVDs
- ISI Emerging Markets Database which provides trade related information from all over the world.
- The financial and economic databases like ACE Equity, ACE Mutual Funds, Cogeneration, Center for Monitoring Indian Economy, Industry Outlook, Economic Outlook and States of India Services.
- Indiastat.com, which is a socio-economic database.

- Institutional Repository is maintained, using D-Space open source software.

Internet Facilities for Staff and Students:

Internet-256 Mbps
LAN, Wi-Fi, Remote log-in facility for faculty members and PG students.

Total Number of Class Rooms:

17

- Air-conditioned and equipped with multimedia and audio-visual equipment to facilitate effective learning.
- Designed to promote maximum interaction between the faculty and students.
- Having internet connectivity through wireless local area network.

Class Rooms with ICT Facilities:

17

Students' Laboratories:

Computing facilities for the students include a well-equipped lab.

- The main computer lab, designated as Cyber Block, is available to all students and faculty members.
- Provides access to various Analytical Processing tools like SPSS, application packages like MS Office, various operating systems, electronic mail, and the Internet/Intranet.
- Equipped with over 66 Windows-based computers and 3 High speed Laser printers.

Research Laboratories:

Not Applicable.

Seminar Hall / Auditorium:

01 with seating capacity of 456

Conference Room:

01 with seating capacity of 46

39. **List of Doctoral, Post-doctoral Students and Research Associates:**

a) From the Host Institution / University:

Sr. No.	Name of the (Doctoral) Students	Topic of Research
1	Srivastava Pranaya	Measuring impact of firm specific resources on Indian SME's with particular study of Automobile and Textile Sector
2	Vineet Kumar	An empirical investigation of antecedents and consequences of dysfunction customer behavior
3	P. Ganesh	Suitability of the Function Point Analysis

		Method for Software Project Management Under "dotNET" Platform
4	Dhyani Jwalant Mehta	Doing Course work. Topic yet to be decided

b) From Other Institutions / Universities:

Sr. No.	Name of the (Doctoral) Students	Topic of Research
Full Time Students		
1	Jyoti Verma	A Study of Knowledge Sharing in Cross Functional Teams.
2	Sapna P. Choraria	A study of factors affecting users' participation, experience and stickiness on the online community websites.
3	Shrabani B. Bhattacharjee	A study of formalization of Human Resource Management Practices in Micro, Small & Medium Enterprises in Gujarat.
4	Dhiren N. Jotwani	Economic Growth in India: Financial Sector Development
5	Natasha R. Kaul	Leader Member Exchange: A Study of Antecedents & Organizational Outcomes
6	Shivangi Singh	The Impact of Export Facilitation Programmes on Firm's Export Performance.
7	Debjani Rajanish Dass	Managerial Perception for Change Management.
8	Abhishek Sachan	Topic yet to be finalized.
9	Kathak Rajen Mehta	Topic yet to be finalized.
10	Reena Biju	Coursework in Progress.
11	Priyanka Bharatkumar Dave	Topic yet to be finalized.
12	Tanvi Jayantilal Faldu	Topic yet to be finalized.
13	Amandeep Kaur Sidhu	Coursework in Progress. Topic yet to be finalized.
14	Aniketa Rajen Gakhar	Coursework in Progress. Topic yet to be finalized.
15	Manjari Mudanand	Coursework in Progress. Topic yet to be finalized.
16	Neha Dixit	Coursework in Progress. Topic yet to be finalized.
External Students		
17	Trivedi Megha S.	Creating a Competitive Advantage Through Corporate Communication
18	Prajapati Sudhirkumar	Empowerment of women through entrepreneurial activities of self-help groups
19	Dhani Ram Rajak	Multi-level crop acreage estimation using remote sensing technique and resource management.
20	D. Jegatheesa Pandian	Energy Security - with focus on petroleum sector

21	Dave Sneha Dipak	An empirical study on platinum as a commodity in India
22	P. A. Padmanabhan	A study of mergers & acquisitions in India and its impact on enterprise value
23	Godiawala Savan Rashmikant	Cross Border Capital Account Transactions
24	Binu Philip	Determinants & Licensing: A Study of Selected Bio-Tech Companies and Research Institutions

40. ***Number of post graduate and Ph.D. students getting financial assistance from the university:***

Year	Programme	Number of Students
2014-15	MBA	299
2014-15	BBA-MBA	08
2014-15	Doctoral Programme in Management	10

41. ***Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:***

Yes, the need assessment exercise was undertaken before the development of a new programme. Some of the highlights are described below:

- Programmes offered by leading schools both in India and abroad are continuously scanned to identify new programmes offered by them. Information is also collected from the experts from industry and academia.
- The proposal is further screened based on the potential demand from the recruiters for students, who had been through such programmes, ability of the institute to offer such programmes, similar programmes offered by other business schools and finally the attractiveness of such programmes to potential students.
- The programme structure and curriculum are first discussed in the academic area meetings followed by discussions in the Faculty of Management Studies and Academic Council, before seeking the final approval of the Board.

42. ***Does the department obtain feedback from a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?***

Yes, the institute collects feedback of faculty with regard to curriculum and also teaching-learning-evaluation.

- The feedback of faculty with regard to changes in curriculum, if any, by way of introducing new courses or modifying existing courses is first discussed in the Academic Area Committee meetings, comprising of faculty experts from the industry and academia which is held twice a year.
- The recommendations of the committee are further discussed in the Faculty of Management Studies and Academic Council before sending the final recommendations to the Board for approval.

With regard to feedback of faculty on the teaching-learning-evaluation process, the institute has initiated outcome based education (OBE) in the academic year 2013.

- The faculty members take the responsibility of implementing teaching-learning-evaluation process in their courses and report their feedback in the form of assurance of learning report.
- The Assurance of Learning report provides information about the entire teaching-learning-evaluation and recommendations for improvement in the next cycle.

b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. The institute has a formal system for collecting feedback from students about the teaching-learning-evaluation process followed in each course.

- They also provide feedback about the teacher's performance in the class. The feedback is reviewed by the Director after every term and, if needed, the feedback is discussed with the concerned faculty to identify their deficiencies and steps required to overcome them in future.
- The Student Advisory Committee (SAC) members who represent the student community are encouraged to convey their grievances on academic and administrative issues to the Director which are promptly addressed.

c) alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes, the institute has both formal and informal methods of collecting feedback regularly from the alumni and recruiters.

The institute collects feedback through various channels including:

- alumni connect
- alumni conclaves
- alumni meets in various cities
- admission panels
- mock interviews
- alumni lecture series engage alumni throughout the year

During these interactions, the institute collects valuable feedback from them on all the institute's activities and tries to act promptly to address any deficiencies pointed out by them.

Similarly, the employers are encouraged to provide their feedback about all aspects of the institute including curriculum, students' preparedness to take their roles in the industry, etc., during their campus visits and the performance of the students in their jobs as well. The feedback is analyzed and, wherever required, corrective action is taken promptly.

43. **List the distinguished alumni of the institute (maximum 10)**

Sr. No.	Name of Alumni	Present Designation & Organization of the Alumni
1	Sachinder Bhinder	Executive Vice President & Business Head (Home Finance), Kotak Mahindra Bank Ltd., Mumbai

2	Gautam Saraf	National Head, Cushman and Wakefield India, Mumbai
3	Sharad Kumar	Vice President - Regional Sales, HDFC Bank Ltd. Ahmedabad
4	Prakash Dhoot	Vice President - Investments, Motilal Oswal Private Equity Advisors Pvt. Ltd., Mumbai
5	Saurabh Kasat	Associate Vice President, Ernst & Young, Hyderabad.
6	Sanket Mangrulkar	AVP Finance, Aureus Analytics, Mumbai
7	Mandeep Tulseja	Vice President, HSBC, Mumbai.
8	Rajat Dang	Brand Manager, Hindustan Unilever Ltd., Mumbai
9	Farookh Rusi Bharucha	Zonal Risk & Compliance Manager, ICICI Bank Ltd., Ahmedabad
10	Jaldeep Virani	Senior Manager - Metals, TATA International, Mumbai

44. ***Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:***

- Enrichment courses such as Stochastic Calculus in Finance; Advanced Marketing Research, Capston Business Simulation, Big Data, Business Analytics, etc. also offered to the MBA Students
- Nirma International Conference on Management (NICOM), Anvesh (doctoral research conference), Conclaves in the areas such as Marketing, Finance, Human Resource Management, Operations Management, Entrepreneurship are also organized every year in which students actively participate.
- Special Lectures are organized regularly under the categories such as Institute Public Lecture Series, CEO Lecture Series, Alumni Lecture Series, Institute Seminar Series, etc.
- One enrichment course is offered as a Credit Course in every semester of the BBA MBA programme from the following list:
 - ✓ Yoga & Total Health
 - ✓ KASH – Knowledge, Attitude, Skills & Habits
 - ✓ GEM- Goals, Empower, Measure
 - ✓ Accelerated Learning
 - ✓ Creativity
 - ✓ Personality Development & Business Etiquettes
 - ✓ Creative Writing
 - ✓ Industry Analysis
 - ✓ E-Commerce
 - ✓ Phonetics
 - ✓ Time Management
 - ✓ Spreadsheet.
 - ✓ Group Discussion and Interviewing Skills
 - ✓ Outbound Teamwork.
 - ✓ Value Clarification.
 - ✓ Career Planning and Goal Setting

- ✓ Science & Technology
- ✓ Gender & Disability Sensitivity
- ✓ Innovation Management

45. ***List the teaching methods adopted by the faculty for different programmes:***

Experiential learning is the core of all the teaching methods adopted across all the programmes. The entire teaching, learning and evaluation process is aimed at achieving distinct learning outcomes and developing the desired attributes and qualities amongst all the students graduating from the various programmes.

Carefully calibrated mixes of pedagogical tools are used to enhance learning experience. They include:

- Traditional Lectures
- Class discussions based on cases developed by leading schools such as Harvard Business School, Ivey Richard Business School, Stanford Business, Darden Business school, etc. multi-media cases, cases developed by the institute's faculty
- Business Simulations
- Lecture Supplemented by Videos
- Action-Learning Projects
- Summer and NGO Internships
- Social Projects
- Role-plays
- Exercises
- Discussion on articles from popular journals and business newspapers
- Foreign immersion for students of Family Business and Entrepreneurship programmes
- Industry Visits
- Guest lectures by industry professionals, etc., are used to provide a highly enriching and exciting learning experience for the students

Computer based Learning Management System (LMS) is in place to aid in course delivery.

In addition, to provide a more holistic learning experience, students are encouraged to participate in various co-curricular and extra-curricular activities such as student conclaves, conferences, CEO and institute lecture series, assisting faculty in research and developing teaching materials, student clubs, etc.

46. ***How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?***

The institute has initiated Outcome Based Education (OBE) during the academic year 2013-14.

- The institute has identified four attributes or qualities (entrepreneurial, empowered, engaged and ethical) which it expects all the students to imbibe in line with its vision and mission.
- Programme education objectives and programme outcomes specific to different programmes have then be developed to achieve the desired outcomes.

- The faculty members then develop outlines for their respective courses with desired course outcomes which are aligned to programme objectives.
- To measure the course outcomes, the faculty members develop rubrics and evaluation criteria to measure the outcomes.
- Finally, an Assurance of Learning Report (AoL) is prepared by the faculty which provides analysis of the performance of all the students in the course and suggestions to improve the teaching-learning-evaluation process in the next cycle.

47. ***Highlight the participation of students and faculty in extension activities***

The participation of students and faculty in extension activities of two types viz. as part of curriculum- Managing Social Projects (MSP), NGO internship and as Voluntary activity – SARAL and Rotaract

Managing Social Projects:

As part of the curriculum of MBA [Full Time] Programme of the Institute, a compulsory course of 1.5 Credit Hour, viz. “Managing Social Projects” is offered in the first year of the programme.

The course attempts to address the following objectives:

- To sensitize the students to the social concerns and the nature of individual and organizational effort required to address such concerns as well as the role they can play in this effort.
- To generate a perspective about the nature of managerial challenges faced by such organizations and learn how the academic inputs of the MBA programme can be made applicable to diverse situations.
- Most of these organizations are informally organized or run with the help of volunteers only and they need assistance to set up professional management systems for their day to day administration. It is hoped that students would be able to provide such assistance.

The purpose is to make the students aware of their own obligations towards society and also to simultaneously help the organizations to professionalize their operations and administration. It is hoped that such an effort would benefit the student community develop youth while simultaneously creating a sustainable impact within the respective organization.

During last year the institute had taken up a project and the students worked on a live, action research project under the leadership of Dr Jayanti Ravi, I.A.S., Commissioner, Technical Education, Government of Gujarat.

The project, ‘Social Enterprise for Human Upliftment’ (SEHU), on Human Development Index had students working in 45 villages in Bhiloda and Himmatnagar Talukas of Sabarkantha District.

Apart from fulfilling the original objective of social sensitization of MBA students from various parts of our country, this year’s live project also gave them an opportunity to contribute significantly to the development of HDI indices and

community initiatives.

NGO Internship:

An NGO Internship Programme was also offered as part of the BBA-MBA [Five year Integrated Programme] curriculum and the details are as follows:

After First Year, the BBA students compulsorily have to go through a Summer Internship at an NGO so as to be sensitized to the social realities and issues. It helps them to develop an appreciation of a world different from theirs and also to contribute in a small way towards its betterment.

The faculty, corporate relations cell and students are involved in identifying the NGOs pan India, which can offer challenging and interesting projects to students for duration of 4 weeks. During the internship the students work under an organization guide and also have a faculty guide to monitor and guide them. The students are required to submit three reports during the course of their internship. The Faculty Guide interact with the organizations either personally or through mails with the NGOs (organization guides) to get a feedback.

The students are evaluated on the basis of a detailed report and a presentation of the same to a Panel of Faculty Members. The organizations (NGOs) are also required to fill up a feedback form and submit to the institute on completion of the project. The feedback from the organizations is sought on the Academic & Skill Levels of the Students as well as the Behavioral Aspects.

SARAL:

Saral is a social initiative at the Institute of Management, Nirma University, by the students towards spreading the luminescence of education and knowledge. “*Tamso Ma Jyotirgamaya*” is the principle propounded by Institute and Saral has been relentlessly pursuing this goal, ever since its inception in September 2009. Saral works to educate children of the laborers engaged in various construction works going on in the campus, most of them have never been exposed to any kind of formal education. Saral lives up to its name and keeps it really simple.

The children are taught basic things about life, general knowledge about their environment, discipline and other etiquette in a very playful manner. Innovative games, entertaining videos and other entertaining methods are used to make sure that the children do not lose interest in the learning process.

Saral has been playing a proactive part in not only developing the children’s knowledge base, but also infusing an overall development of their personality as an individual. As a part of it, from time to time, Saral comes up with various activities, such as:

- **Educational Programme:**

The students of the Institute launched an educational programme for children of construction workers on the campus. Under the programme a Primary Coaching Centre for all the children up to the age of 8 years was established on the campus with one teacher, taking advantage of STP Scheme of Govt. of India. In addition, children aged more than 8 years were got admitted in a State Govt. School near the campus. The entire educational expenditure was borne by the students of the Institute. More than 25 under privilege children

have benefited from this programme.

In addition, the students also carried out many social activities throughout the year, such as Blood Donation Camps, Fund raising for flood affected people of Uttarakhand, Organ Donation Awareness Campaign, Go Green Campaign, etc.

- A special session to make the children aware of the country they belong to, where they are made aware of basic facts about the state and the country that they live in while matching their tunes to patriotic songs.
- Every Sunday, the children are treated to an entertaining movie, mostly a cartoon feature. This acts as an incentive for their hard work and keeps the children looking forward to the learning sessions.
- Saral helps spread the joy and warmth of all festivals by gifting sweets and other things to the children.
- Keeping the harsh winter in mind, Saral distributed warm clothes and slippers to the children.

Rotaract:

As a vital step towards achieving its vision of “*Shaping a better future for mankind by developing effective and socially responsible individuals & organisations*” Institute of Management, Nirma University added a new chapter towards the service of community with installation of Rotaract Club. The club is established under the umbrella of Rotary club of Kankaria, Ahmedabad. The installation programme was held at the Institute of Management, Nirma University on September 24, 2009.

The activities of Rotaract Club are classified into five broad categories:

- Blood Donation Camps
- Cloth Drive
- Go Green Campaign
- Informative Lectures
- Presentation on various issues
- Organizing different social relevant campaigns

48. ***Give details of “beyond syllabus scholarly activities” of the department***

The institute nurtures the culture of learning beyond syllabus with the help of various activities and platforms. The institute facilitates bringing the industry to the classroom through a series of conclaves wherein experts from different fields share their experience with the students. The following conclaves are part of the academic calendar of the institute.

- Prayag – The Management Conclave
- Pragaman – The Entrepreneurship Conclave
- Pravartan – The HR Conclave
- Arthodaya – The Finance Conclave
- Ayatana – The Marketing Conclave
- Prayojan – The Operations Management Conclave
- Pratidhwani – The Alumni Conclave

Industry exposure is also facilitated through a series of guest lectures from the industry experts -throughout the year. The following are the platforms for such industry-institute interactions. The following Expert Lecture Series are organized:

- Institute Public Lecture Series.
- Institute Seminar Series
- CEO Lecture Series
- Alumni Lecture Series.

The institute also strongly believes in experiential learning of its students. The students are exposed to hands on training through the platforms of various functional area clubs. These students-managed clubs organize workshops, training programs and guest lectures throughout the year. The following Clubs are functional at the Institute.

- Clique (IT Club)
- Finesse (Finance Club)
- Imprints (HRM Club)
- Niche (Marketing Club)
- Swayam (Family Business and Entrepreneurship Club)
- Fiesta (Music Club)
- Expressions Club
- Sumantra (The Book Club)
- Xquizit (The Quiz Club)
- OPTIMUS (The Operations Club)
- Pratrikri (The Photography Club)
- News Junction

The Institute also organizes International Conference on Management every year which is jointly managed and executed by students and the faculty members. The students are also encouraged to present Research Papers in this conference.

The Institute also organizes academic festival named, “Perspective” wherein participants from B-schools across the country compete in various competitions. This academic fest is also managed and executed by the students of the Institute.

Institute is also involved in offering continuing education for working professional in the industry in the form of management development programmes, tailor made in-house programmes and consulting.

49. ***State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.***

- The Fee Regulatory Committee (FRC) of Government of Gujarat has put the institute in ‘Top Bracket’ - the highest category.
- MBA (Full Time) Programme of the Institute has been consistently ranked by National ranking agencies such as National Human Resource Development Network (NHRD), All India Management Association (AIMA), Competition Success Review (CSR) etc. among the top 25 B-Schools in the country.

50. ***Briefly highlight the contributions of the department in generating new knowledge, basic or applied.***

A number of research papers, conference proceedings and books have been published by the faculty and thereby contributing to generation and dissemination of

new knowledge in various areas of management.

51. ***Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.***

Major Strengths:

1. Academic and general Infrastructure
2. Established and recognized national Institute which is consistently ranked amongst the top 25 business schools in the country
3. Qualified and experienced faculty, low faculty attrition
4. Strong industry institute linkages
5. Strong, transparent system and processes

Major Weaknesses:

1. International accreditation
2. International linkages
3. Inter institute programmes
4. Establishment of Centre of Excellence
5. Research and consulting

Major Opportunities:

1. Convergence of technology for teaching-learning process
2. Courses in emerging areas (Big Data/Cloud Computing/Business Analytics)
3. MDP opportunities in the state
4. Not many well-known business schools in the state
5. Enhanced business confidence

Major Challenges:

1. New IIMs and increase in the intake of students by the established IIMs
2. Entry of foreign universities
3. Decreasing number of MBA aspirants
4. Executive MBA/One Year MBA/ E learning programmes gaining popularity
5. Attracting experienced faculty

52. ***Future plans of the department***

The institute aspires to be among the top 15 business schools in the country by 2019 from its current position of 25. To achieve this objective, the institute has prepared a strategic plan for the period 2014-19 based on a comprehensive analysis of the external and internal environment. Five thrust areas, given below, have emerged from the analysis, which the institute intends to focus on during the next five years to achieve its objective.

- Equip students with knowledge and skills to make them industry ready.
- Improve placement performance.
- Attract high caliber faculty and develop them.
- Increase research and publication output.
- Enhance institute-industry interaction.

ANNEXURE – I

Faculty Profile (Institute of Management)


Sr. No.	Name of the Faculty	Designation	Qualifications	Specialization	No. of Years' Experience	No. of Ph.D. /M.Phil. (Degree Awarded during 2010-14)	No. of Ph.D. / M.Phil. (On going)
1.	Somayajulu Garimella	Director	B.Tech., MBA, MS(Ch.E), Ph.D.	Marketing and Entrepreneurship	30	--	--
2.	Ashwini Awasthi	Professor	B.Sc., MBA, Ph.D.	Marketing	26	02	03
3.	Bindi Mehta	Professor	M.A., Ph.D.	Strategy and Entrepreneurship	31	--	05
4.	Deepak Kumar Danak	Professor	M.Com., Ph.D.	Finance	36	--	02
5.	M. Mallikarjun	Professor	M.A., Ph.D.	Economics/ Finance	20	--	04
6.	Pawan Kumar Chugan	Professor	M.A., Ph.D.	International Business	38	01	06
7.	Shantanu Mehta	Professor	F.C.A., Ph.D.	Finance	34	03	08
8.	V. V. Nath	Professor	M.Sc., Ph.D.	Information Technology	38	--	--
9.	Yogesh Doshit	Professor	B.Tech., PGDM, Ph.D.	Economics, Finance, Strategy	31	--	--
10.	Deepak K. Srivastava	Professor	B.Sc., MBA, Ph.D.	International Business	13	--	01

11.	A.C.Brah-mbhatt	Adjunct Faculty	M.Sc., LL.B., Ph.D.	Marketing and Operations	46	04	04
12.	Rajesh Kikani	Adjunct Faculty	B.Tech., PGDBM	General Management and Strategy	35	--	--
13.	Harismita Trivedi	Sr. Associate Professor	MBA, Fellow (AHRD-XLRI)	Human Resource/Organizational Behavior	23	--	01
14.	Nityesh Bhatt	Sr. Associate Professor	MBA, Ph.D.	Information Technology	15	02	03
15.	Prabhat Kumar Yadav	Sr. Associate Professor	BE, MBA, Ph.D.	Marketing	18	--	--
16.	Rajesh Kumar Jain	Sr. Associate Professor	BE, PGDBM, Ph.D.	Operations Management	24	--	04
17.	Jayesh Aagja	Associate Professor	MBA, Ph.D.	Marketing	15	--	05
18.	Nina Muncherji	Associate Professor	M.A.	Human Resource/Organizational Behavior	26	--	--
19.	Sameer Pingle	Associate Professor	BE, MBA, Ph.D.	Human Resource/Organizational Behavior	12	--	06
20.	Sanjay Jain	Associate Professor	MBA, Ph.D.	Marketing	15	--	01
21.	T.S.Joshi	Assistant Professor (Associate Professor)*	M.Sc., MBA	Marketing	21	--	--

22.	Sapna Parashar	Assistant Professor (Associate Professor)*	M.Sc., MBA, Ph.D.	Marketing	13	01	02
23.	Anamika Sinha	Assistant Professor	MCM, Ph.D.	Human Resource/Organizational Behavior	11	01	07
24.	Anuradha Pandit	Assistant Professor	M.A., M.Phil.	Business Communication	15	--	--
25.	Chetan A. Jhaveri	Assistant Professor	M.Sc., Ph.D.	Quantitative Techniques	19	--	--
26.	Dhiren Jotwani	Assistant Professor	MBA	Economics	04	--	--
27.	Khyati Desai	Assistant Professor	MBA, ACS	Strategy and Entrepreneurship	13	--	--
28.	Khyati Shah	Assistant Professor	MBA, CA	Accounts and Finance	04	--	--
29.	Parag Rijwani	Assistant Professor	M.Com., M.Phil	Finance	09	--	--
30.	Prashant Kumar	Assistant Professor	MBA	Operations Management	01	--	--
31.	Maresh K.C.	Assistant Professor	M.Sc., Ph.D.	Statistics	14	--	--
32.	Meeta Munshi	Assistant Professor	BE, MBA, Ph.D.	Marketing	20	--	--
33.	Nilam Panchal	Assistant Professor	MBA, Ph.D.	Finance & General Management	14	--	04
34.	Reena Shah	Assistant Professor	M.Com., Ph.D.	Human Resource/Organizational	17	--	--

35.	Sapna Choraria	Assistant Professor	M.Sc., Ph.D.	Behavior Marketing	01	--	--
36.	Satish Nair	Assistant Professor	MBA, Ph.D.	Strategy and Entrepreneurship	15	--	--
37.	Sunita Guru	Assistant Professor	M.Sc., Ph.D.	General Management/ Marketing	12	--	--

* All these faculty members were working as Reader or equivalent in pre-revised scale. At the time of pay revision, they could not meet the prescribed criteria on a particular date and hence they were put in AGP of ₹ 8000/=. However, for all practical purpose they are in the second layer of teaching faculty, except Pay Band IV and have been shown under the category of Associate Professor, which is second layer in revision of scale.



**Self-Evaluative Report
of
Institute of Pharmacy**

Self-Evaluative Report of Institute of Pharmacy

(Assessment Period: January 01, 2010 to February 28, 2015)

1. **Name of the Institute:**
Institute of Pharmacy
2. **Year of establishment:**
2003
3. **Is the institute part of a School/Faculty of the university?**
Yes, the institute is a constituent institution of Nirma University.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**

Under Graduate Programme:

B. Pharm.

Post Graduate Programmes:

M.Pharm. in Pharmaceutical Technology & Biopharmaceutics

M.Pharm. in Pharmaceutical Analysis

M.Pharm. in Pharmacology

M.Pharm. in Medicinal Chemistry

M.Pharm. in Drug Discovery

M.Pharm. in Clinical Pharmacy

M.Pharm. in Regulatory Affairs and Quality Assurance

Ph.D. Programmes:

Full-time

External

5. **Interdisciplinary programmes and departments/institutes involved:**

Interdisciplinary Programme:

M.Sc. in Cosmetic Technology

Institutes involved:

Institute of Pharmacy and Institute of Science

6. ***Courses in collaboration with other universities, industries, foreign institutions, etc.***

Sr. No.	Name of Course	Collaborative University / Industries / Foreign Institute
1	Skin Dermatology	Beiersdorf, Germany
2	Raw Materials in Cosmetics	Beiersdorf, Germany
3	Applied Pharmacotherapeutics I	Apollo Hospitals
4	Applied Pharmacotherapeutics II	Apollo Hospitals
5	Major Project	Piramal Discovery Solutions Intas Pharmaceuticals Astron Research Ltd. Aurobindo Pharma Zydus Cadila Nirlife Health Care Wockhardt Pharma Lambda Therapeutics Research Ltd. HCG Hospital CIMS Hospital QED Clinical Services GCS Medical College, Hospital and Research Centre

7. ***Details of programmes discontinued, if any, with reasons***

B.Pharm.(Hons., Five Years Integrated Programme):

In pursuance to the recommendations given by the NAAC Peer Team visited in year 2010.

PBCPCP (Post B.Pharm. Certificate Programme in Clinical Pharmacy):

The programme was discontinued due to the lack of demand in the society.

M.Pharm. in Phytopharmaceuticals & Natural Products:

The programme was discontinued due to less preference by the students and the lack of demand in the society.

8. ***Examination System: Annual/Semester/Trimester/Choice Based Credit System***
Semester System

9. ***Participation of the department in the courses offered by other department:***
NIL

10. **Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors / others)**

Name of the Post	Sanctioned Post	Filled Post	Actual (including CAS & MPS)
Professor	9	5	5
Associate Professor	9	7	7
Assistant Professor	14	13	13
Visiting Faculty	--	11	--

One new faculty member is issued appointment orders recently.

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Currently, the institute has 25 faculty members, out of which 20 faculty members are with Ph.D. qualification and 5 faculty members have industrial experience.

The details are mentioned in Annexure-I, attached at the end of the report.

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:**

Prof. Eric Kupferberg, Sr. Research Fellow, Northeastern University, Boston, USA visited the Institute during March-April 2014 for a period of fifteen days as a Visiting Fellow.

13. **Percentage of classes taken by temporary faculty – programme-wise information:**

Name of the Programme	Percentage of Classes Taken by Temporary Faculty			
	Year 2010-11	Year 2011-12	Year 2012-13	Year 2013-14
B.Pharm.	0%	0%	6.41 %	0 %

14. **Programme-wise Student Teacher Ratio:**

Name of the Programme	Total No. of Students Enrolled	Total No. of Teachers		Student Teacher Ratio	
		Sanctioned	Current	Sanctioned	Current
B.Pharm. (2014)	294	32	25	13:1	16:1
M.Pharm. (2014)	121				

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled**

Name of the Position	Sanctioned Post	Filled Post
Number of Academic Support Staff / Laboratory Staff	15	15
Number of Administrative Staff	8	8

16. **Research thrust areas as recognized by major funding agencies:**

- Design and Formulation of Novel Pharmaceutical Dosage Forms
- Pharmacological Evaluation of Herbal and Synthetic Drugs for Anti-Diabetic, Anti-Histaminic, Anti-Cancer and various other activities. Study of Molecular Mechanism of Action for Drugs
- Design, Development, Formulation and Pharmacological Evaluation of New Herbal Formulations
- Development and Optimization of Targeted Drug Delivery Systems
- Computer Aided Drug Design and Synthesis of Novel Pharmaceutical Agents
- Development and Validation of New Analytical Methods for API, Dosage Forms and Excipients
- Liquid Phase Combinatorial Synthesis of Small Molecules
- Pharmacoepidemiological Studies
- Isolation and Characterization of Pharmacologically Active Marker from Natural Products
- Design and Development of New Synthetic Procedures for existing Drugs

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Faculty Members Involved :	17
National Research Projects :	20 +3*
	* Principally Approved
Major Funding Agencies:	i) Department of Science & Technology (DST), New Delhi ii) Department of Biotechnology (DBT), New Delhi iii) Gujarat Council on Science & Technology (GUJCOST), Gandhinagar iv) ICMR, New Delhi v) SERB, New Delhi
Total Grants Received :	₹ 142.35 Lacs

The details will be provided to the peer team at the time of visit as Annexure – II.

18. **Inter-institutional collaborative projects and associated grants received:****Inter-Institutional Collaborations:**

Title of the Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
Studies on Exploring Novel Excipients for Drug Delivery in Oral Cavity	Dr Dhaivat Parikh	1,80,000/-	Institute of Technology, Nirma University	Mr. Nimesh Shah
Effect of C. crista Seed Extract on Genetic Material: An Invitro genotoxicity Assessment	Dr Niyati Acharya	50,000/-	Institute of Science, Nirma University	Dr Sonal Bakshi

International Collaboration:

Title of the Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
Indo-Bulgarian Joint Research Project under Indo-Bulgarian Program of Co-operation in Science and Technology	Prof. Manjunath Ghate	5,10,000/-	Plovdiu University, Bulgaria	Dr. Iliyan Ivanov

National Collaborations:

Title of the Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
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	3,50,000/-	Diacare Clinic, Ahmedabad	Dr. Banshi Saboo
Investigation into the prevalence of pre-diabetic status in Gujarati population and evaluation of its association with various risk factors	Dr Snehal Patel	1,95,000/-	Diacare Clinic, Ahmedabad	Dr. Banshi Saboo
Bioavailability Enhancement using Nanotechnology	Dr Tejal Mehta	2,52,000/-	Confederation of Indian Industry (CII), Centre of Excellence in Nanotechnology	Dr. Ajay Gupta
Product Development using Nanotechnology	Dr Sanjeev Acharya	2,52,000/-	Confederation of Indian Industry (CII), Centre of Excellence in Nanotechnology	Dr. Ajay Gupta

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

DST-FIST

The Institute has received a grant of ₹ 55 Lacs under DST-FIST Programme.

Being a statutory private University, we are not covered under UGC act 12(B), hence not eligible for funding from UGC.

20. **Research facility/Centre with (a) state recognition (b) national recognition (c) international recognition:**

Name of the Research Facility / Centre	Recognition
Centre of Excellence in Nanotechnology, Confederation of Indian Industry (CII)	National
Gujarat Council on Science and Technology (GUJCOST)	State

21. **Special research laboratories sponsored by / created by industry or corporate bodies:**

NIL

22. **Publications (2010-2014):**

• Total Number of Publications:	200
• International Research Publications	153
• National Research Publications	47
• Highest H index of the Faculty Member :	11
• Average Publication per Faculty Per Year :	2
• Highest Impact Factor for Published Paper:	4.9
• Number of Books Published :	07
• Number of Book Chapters Published :	03

The details will be provided to the peer team at the time of visit as Annexure – III, IV, V and VI.

23. **Details of patents and income generated:**

Total 10 patents have been filed in India out of which 04 patents have been published. Since most of the patents are published recently, no income has been generated till date.

The details will be provided to the peer team at the time of visit as Annexure-VII.

24. **Areas of consultancy and income generated:**

List of Areas of Consultancy:

- Development of various Dosage Forms using Novel Techniques
- Characterization of various Dosage Forms using Texture Analyzer
- Diffusion Study of Topical Formulations
- Impurity Profiling of APIs and Formulations
- Development and Validation of Stability indicating Assay Methods for APIs and Formulations
- Phytochemical Screening of Medicinal Plants
- Pharmacological Evaluation of Medicinal Plants and Formulations
- Acute and Sub-Acute Toxicity Studies of various Formulations

- Fingerprinting of Herbal Extracts by TLC and HPTLC Techniques
- Microwave Synthesis of Small Organic Heterocycles as Potential Drug Candidates
- Extraction of Plant Material using Supercritical Fluid Technology

Income Generated from Consultancy:

₹ 15,26,925/-

25. ***Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:***

- Nine faculty members visited international institutes for sharing of research work.
- Twenty five faculty members have visited 72 national institutes.
- Twenty five faculty members have visited 15 pharmaceutical industries.

The details will be provided to the peer team at the time of visit as Annexure– VIII.

26. ***Faculty serving in National committees b) International committees c) Editorial Boards d) any other***

Most of the faculty members are involved in various professional activities in different capacities.

- Seven faculty members are editorial board members.
- Twenty two faculty members have served national committees during the assessment period.
- Fifty nine invited lectures were delivered as a resource person by the faculty members during the assessment period.

The details will be provided to the peer team at the time of visit as Annexure– IX.

27. ***Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):***

Considering the importance of Faculty and Staff development activities, the University has set-up its own system of ‘Faculty Development’ under the supervision of a core committee headed by the Director General. A senior professor is given charge of organizing and monitoring staff development activities.

The Faculty Development Programmes are arranged in four different categories, namely

- i) Induction Training Programme of 4 weeks for newly recruited faculty members before they go for class-room teaching
- ii) Orientation Programme of 2 weeks for teachers having 2-5 years of teaching experience
- iii) Refresher Course of 2 weeks
- iv) Research Orientation of 2 weeks

Seventeen faculty members of the Institute attended Faculty Recharging Programmes outside the University during the assessment period.

The details will be provided to the peer team at the time of visit as Annexure– X.

28. ***Student project:***
Percentage of students who have done in-house projects including inter-departmental projects:

Year	Percentage of M. Pharm. students who have done in-house projects including inter-departmental projects	Percentage of B. Pharm. students who have done in-house projects including inter-departmental projects
2010-11	85 %	100%
2011-12	78 %	100%
2012-13	60 %	100%
2013-14	45 %	100%

Percentage of students doing projects in collaboration with other universities industry / institute:

Year	Percentage of M. Pharm. projects in collaboration with other universities / industry / institute
2010-11	15 %
2011-12	22 %
2012-13	40 %
2013-14	55 %

29. ***Awards / recognitions received at the national and international level by Faculty and Students***

- Twenty National Awards/ Recognition were received by the faculty members in the last four years.
- Thirty six Awards were received by the students during the last four years at state and national levels.

The details will be provided to the peer team at the time of visit as Annexure– XI.

30. ***Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any***

- The Institute has organized 03 International Conferences, 06 National Conferences / Seminars and 12 Workshops.
- For all such events, the financial assistance was received from DST, ICMR, AICTE, GUJCOST etc.

The details will be provided to the peer team at the time of visit as Annexure– XII.

31. **Code of ethics for research followed by the departments:**

The Institute follows the Code of Ethics for Research as prescribed by the University. The copy of the same is attached as Annexure– A.

32. **Student profile programme-wise:**

Name of the Programme	Applications Received	Admitted		Pass Percentage	
		Male	Female	Male	Female
B. Pharm. (For Batch 2010)	NA*	29	37	94	100
M.Pharm. (For Batch 2012)	292	27	13	96	100

*Admissions for B.Pharm. programme are carried out by the Admission Committee for Professional Courses (ACPC) of Gujarat State. (Number of application received is not available)

33. **Diversity of Students (For year 2014)**

Name of the Programme	% of Students from the same University	% of Students from other Universities within the State	% of Students from Universities outside the State	% of Students from other Countries
B.Pharm.*	-	-	-	7.5**
M.Pharm.	10%	72 %	18 %	0

* Admissions for B. Pharm. Programme are carried out by the Admission Committee for Professional Courses (ACPC) of Gujarat State and 85% seats of the B. Pharm. Programme are filled by the ACPC. As per the regulations of the ACPC, the students who have cleared exams from Gujarat State are eligible for admission.

**Students from other countries are from PIO and Gulf quota.

34. **How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Examinations	Number of students*
UGC-CSIR NET	00
SET	--
GATE	02
GPAT	155
GRE	40
TOEFL	42
GMAT	--
CAT	16
Others (Gujarat Public Service Commission)	05

*based on available data from Alumni.

35. **Student Progression**

Student Progression (For 2014 Pass out Batch)	Percentage against Enrolled*
UG to PG	53
PG to M.Phil.	--
PG to Ph.D.	08
Ph.D. to Post-Doctoral	--
Employed through Campus Selection	UG 10 PG 53
Employed through other than Campus Recruitment	UG 12 PG 15
Entrepreneurs and self employed	10

* based on the available data.

36. **Diversity of Staff:**

Percentage of Faculty Member who are Graduated	
From the same University	24 %
From other Universities within the State	64 %
From Universities from other States	12%
From Universities outside the Country	--

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Ten faculty members have received Ph.D. degree during the assessment period.

38. **Present details of departmental infrastructural facilities with regard to:****a) Library:**

Area: 256.60 sq.mt.

Total number of books (volumes): 8357

Total number of e-journals: 121

Number of reference book: 1491

Open source software: KOHA

Institutional Repository is maintained, using D-Space open source software.

b) Internet Facilities for Staff and Students:

Internet-256 Mbps

LAN, Wi-Fi, Remote log-in facility for faculty members and PG students.

c) Total Number of Class Rooms:

10

d) Class Rooms with ICT Facilities:

06

e) Students' Laboratories:

21

f) Research Laboratories:

06

g) Seminar Hall / Auditorium:

01 with seating capacity of 214

h) Conference Room:

01 with seating capacity of 30

i) Animal House:

01

j) Medicinal Plant Garden :

01

39. **List of Doctoral, Post-doctoral Students and Research Associates:****a) From the Host Institution / University:**

Sr. No.	Name of the Student	Doctoral / Post-Doctoral	Topic
1	Shelat Devang Yogeshbhai	Doctoral	Development and Characterization of Bioactive Scaffolds from Ayurveda for the treatment of Neurodegenerative Disorder
2	Prajapati Pintu Babubhai	Doctoral	Development of Analytical Methods for Determination of

			Drug Substances & related Degradation Products in Active Pharmaceuticals Ingredients (API) & Drug Products
3	Bakrania Anita	Doctoral	Investigation and Evaluation of Interferon Inducer Alone and in Combination with Chemotherapeutic Agents as a Targeted Anti-Cancer Therapy
4	Kinjal Rahul Shah	Doctoral	Formulation, Development and Optimization of Immediate Release Dosage Forms of an Analgesic Drug
5	Shah Ankur Satishbhai	Doctoral	Development and Validation of Analytical Methods for Estimation of Active Pharmaceutical Ingredients (APIS) in Presence of its Degradation Impurities from Bulk and Formulations
6	Chaube Udit Jaiprakash	Doctoral	Design, Synthesis and Anticancer Activity of Novel Heterocyclic Molecules
7	Bhayani Dhara Rajeshbhai	Doctoral	Development of different Extraction Techniques and Estimation of Chemical Constituents in Cosmetics by GC/HPLC
8	Chintan Pansara	Doctoral	Formulation and Evaluation of Rapidly dissolving Solid Oral Dosage Forms
9	Patel Pareshkumar Kanubhai	Doctoral	Design, Synthesis and Biological Evaluation of HIV-I Protease
10	Variya Bhaveshbhai Chhaganbhai	Doctoral	Isolation of Galic Acid from Phyllanthus Emblica and Evaluation for Anti-Diabetic and Anti-Atherosclerotic Activity and Investigation into the Molecular Mechanism of Action
11	Desai Priteshkumar Rashmikant	Doctoral	Impurity Profiling and Degradation Behavior of Drugs Active against Cardiovascular Disorders
12	Saurabh Agarwal	Doctoral	Effect of Perindopril and its Combination with Serine Protease Inhibitor on Cardiovascular Complications associated with Diabetes Mellitus

13	Upadhyay Jagatkumar Rajendrakumar	Doctoral	Design, Syntheses & Biological Evaluation of Heterocycles Targeting DPP-4 for Management of Type 2 Diabetes
14	Barot Kuldipsinh Piraji	Doctoral	Synthesis and QSAR studies of Benzimidazole Analogues for Antitubercular Activity
15	Patel Nrupesh R	Doctoral	Analytical Method Development, Validation and Impurity Profiling of Dosage Forms of Anti Allergic Drugs
16	Khan MD Yaseen	Doctoral	Lead finding for Angiotensin Converting Enzyme (ACE) Inhibitors from Medicinal Plants of Ayurveda
17	Patel Divyang	Doctoral	Phytochemical & Pharmacological Evaluation of Some Herbal Drugs with Special Reference to their Anti-Obesity Activity
18	Om Prakash Sharma	Doctoral	Delivery of Drug, Acting on Central Nervous System Using Nanocarrier Systems: Design and Development Using Concept of Quality by Design

b) From Other Institutions / Universities:

Sr. No.	Name of the Student	Doctoral / Post-Doctoral	Topic
1	Patel Miketa Arunbhai	Doctoral	Impurity Profiling of some selected Pharmaceutical Drugs
2	Chivate Amit Ashok Vrushali	Doctoral	Design and Study of Drug Delivery of Poorly Water Soluble Drugs with Improved Pharmacokinetics
3	Thakare Vishnu Namdeorao	Doctoral	Neuro pharmacological Evaluation of Silymarin, Ginkgo biloba in various Experimental Animal Models
4	Patidar Dindayal Rameshchandraji	Doctoral	To Initiate and Assessment of Compliance and Knowledge of Patients of Metabolic Disorders Like Diabetes Mellitus, Hypertension & Obesity in Indore
5	Barai Priyal Sunilbhai	Doctoral	Study of Mechanism of Action of Some Neuroprotective Agents from Indian Medicinal Plants

6	Shah Neha Surendra	Doctoral	Formulation Development and Characterization of Multiparticulate System for Oral Fixed Dose Combination Therapy
7	Komal Vikas Chaudhary	Doctoral	Development and Analysis of Long Acting Parenteral Formulation
8	Prajapat Manali Dhanraj	Doctoral	Design and Development of Lipidic Drug Delivery Systems to Enhancing Bioavailability
9	Prutha Nayan Patel	Doctoral	Conventional and Microwave Assisted Forced Degradation Studies of Pharmaceuticals in Bulk and Dosage Form
10	Neeraj Kumar Sharma	Doctoral	Formulation and characterization of photosensitive liposomes of anticancer drugs
11	Patel Jagruti Jaydevbhai	Doctoral	Design development and optimization of polyherbal formulation with novel drug delivery technology for acute bronchial asthma
12	Borisha Ankitkumar Chandrakantbhai	Doctoral	Lead Identification, Design, Synthesis and Screening of Novel Aurora Kinase Inhibitors as Anti-Cancer Agents
13	Devendra Pratap Singh	Doctoral	Formulation and Evaluation of Curcumin loaded β -casein Nanoparticles for Enhanced Oral Bioavailability
14	Chauhan Navneet Singh	Doctoral	Computational Studies and Design of Novel Molecules as Potential Kinase Inhibitors
15	Patel Hetalben Jwalant	Doctora	Evaluation of Potential of Anti-Diabetic Agents for Treatment of Cancer Cachexia
16	Singh Gopeshkumar Rajaram	Doctoral	Design and Study for Controlled Release of Highly Water Soluble High Dosage Drug Using Hot Melt Extrusion
17	Sushma Rawat	Doctoral	Synthesis and 4D QSAR Analysis of HIV-1 Protease Inhibitor as Potent Anti - HIV Agent
18	Patel Mitalben Nageshbhai	Doctoral	Application of QBD Approach in Impurity Profile by Spectroscopic Techniques
19	Viral Arvindbhai Patel	Doctoral	Formulation Development and Characterization of Nano-Formulation for Management of Dermatological Conditions

20	Tejal Rawal	Doctoral	Lung Targeting Drug Delivery System in Vitro and In Vivo Evaluation
21	Patel Misari Dhruv	Doctoral	Bio-analytical Method Development to Study Effect Cholecalciferol in in-vivo Pharmacokinetic behavior of Statins
22	Jha Abhishekkumar Brajeshkumar	Doctoral	To Target Neuronal Damage in Post Cerebral Ischemic MCAO Rat model & determine better Therapeutic Intervention for Treatment
23	Somnath Chandrakant Sakore	Doctoral	In Vitro and In Vivo Correlation (IVIVC) of Formulation Characteristics and Pharmacokinetics of Antihypertensive Drugs
24	Sharwan Kumar Singhal	Doctoral	Toxic Signal Detection in Pharmacovigilance of Anticancer Drugs in Cancer Treatment
25	Patel Milap Kumar	Doctoral	Formulation, Process Optimization and Characterization of Solid Oral Dosage Form Incorporating Incompatible Drugs
26	Rajput Amarjitsing Premsinh	Doctoral	To Explore Nanocarriers; An Approach for Begin Targeting
27	Nimitt Virenbbhai Chokshi	Doctoral	Formulation, Development and Characterization of Nanoparticulate Drug Delivery Systems for the Treatment of Tuberculosis
28	Parikh Palakben Kirtikumar	Doctoral	Design, Synthesis and Biological Evaluation of Heterocyclic Compounds as Anticancer Agents
29	Tripathi Nagja V.	Doctoral	Development, Optimization and Evaluation of A Poly herbal Formulation for Anti-Diabetic Activity
30	Tuli Davinder S.	Doctoral	Computational Studies & Design of Ligands for the Modulation of PPARs
31	Ritika Jaiswal	Doctoral	Development and Evaluation of Poly herbal Formulation for Wound Healing Activity
32	Parmar Mrugank Bhaskarkumar	Doctoral	Repositioning Opportunities for Antidiabetic and Cardiovascular Drugs with Reference to Pharmacovigilance
33	Patel Amit Ambalal	Doctoral	Process Optimization and Formulation Development of Effervescent Systems for Histamine Antagonist
34	Nitin Dwivedi	Doctoral	Ligand Anchored Nano Carriers Effective in Management in some Neuro Degenerative Disorders

35	Amal Kumar	Doctoral	Rational Approach in Clinical Pharmacology Operational and Decisional Research
36	Raval Nisith Jayeshbhai	Doctoral	Formulation, Development and Characterization of Shilajit Nanoparticles for Liver Disorders
37	Gandhi Dipal M.	Doctoral	Phytochemical Investigations on Dillenia Indica Linn. and Dillenia pentagyna Roxb. for Assessment of their Anticancer Potential
38	Borse Swapnil	Doctoral	A Role of Pharmacokinetic-Pharmacodynamic Differences in Healthy and Diseased Conditions: A Step towards Personalized Therapy
39	Shah Parth Dilipkumar	Doctoral	Identification of Antiacne Agent and Its Formulation and Optimization in Semisolid Dosage from using Quality by Design Method
40	Dadhaniya Tejaskumar Madhavji	Doctoral	Development and Analysis of Long Acting Depot Formulation for Pharmaceutical Use
41	Pithadia Anand Bharatkumar	Doctoral	Effect of Potassium Channel Openers in various Experimental Models of Ischemic Stroke and Related Disorders
42	Pravin Balasaheb Ranjana Nalawade	Doctoral	Design and Study of Drug Delivery of Antiretroviral Drugs with improved Pharmacokinetics
43	R. V. Padmanabha Reddy	Doctoral	Targeted drug delivery through intranasal to central nervous system
44	Patel Nikitaben Narendrabhai	Doctoral	Development and validation of stability indicating method for antihypertensive drugs
45	Patel Bhumika Dipen	Doctoral	Rational Designing, Synthesis and Biological Evaluation of Novel Antidiabetic Agents
46	Jain Shailesh Vinodkumar	Doctoral	Design and Synthesis of DPP-4 Inhibitors as Antidiabetic Agents
47	Arora Bhoomi Saurabh	Doctoral	Assessment of Relationship among Inflammatory Diseases - Hepcidin - Iron Status
48	Mayuree Ashwinkumar Patel	Doctoral	Pharmacognostical, Phytochemical and Pharmacological Study of some Medicinal Plants of Euphorbiaceae Family
49	Khatri Hirenkumar Natvarlal	Doctoral	Formulation and Characterization of Paclitaxel loaded Liposomes for Oral Delivery

50	Shah Unnati Ripalkumar	Doctoral	Novel Drug Discovery from some Traditional Medicinal Plants with Specific Reference to Anti-Cancer Activity
51	Ketan Tulsidas Savjani	Doctoral	Development and Characterization of Formulations of Poorly Soluble Drug Candidates
52	Shah Rushil V	Doctoral	Development and Optimization of Liquid Formulation of Poorly Water Soluble Drugs
53	Ranjeet Prasad Dash	Doctoral	Pharmacokinetic Implications of Intestinal P-Glycoprotein in Diabetic Complications
54	Panchal Siddharth R	Doctoral	Quality Control and Standardization of some Poly-Herbal Formulations Therapeutically Useful in Arthritis
55	Parikh Jignesh Kantilal	Doctoral	Design, Synthesis and Pharmacological Evaluation of some Heterocyclic Molecules
56	Mali Prashant	Doctoral	Phytopharmalogical Investigation of E. nerifolia and E. tirucalli with Special Reference to their effect on Carcinoma
57	Thakur Sandeep Kumar	Doctoral	Identification of Biomarkers in Early Detection of Drug Induced Hepatotoxicity
58	Sharma Sarvesh N.	Doctoral	Formulation and Pharmacokinetic Investigation of Co-Capsulated Curcumin and Artemisinin Liposomes
59	Modi Anuj Pramodkumar	Doctoral	Isolation and Characterization of Hepatoprotective Bioactive Molecule from Indian Medicinal Plant
60	Nisha Hemantbhai Parikh	Doctoral	Development and Validation of Bio-Analytical Method to Estimate CNS Category Drug from Human Plasma by various Analytical Techniques
61	Sagar Sneha Rameshchandra	Doctoral	Design, Synthesis, Biological Activity & Docking Studies of Novel BACE-1 Inhibitors in Alzheimer's Disease
62	Bhangale Jitendra Onkar	Doctoral	Study of Novel Scaffolds from Natural Product for the Treatment of Neurodegenerative Diseases
63	Patel Chintan Hareshkumar	Doctoral	Formulation and Development of a Tabletable Chewing Gum for Oral Candidiasis using Directly Compressible Gum Base
64	Priyanka Nisheeth Desai	Doctoral	Design, Synthesis and Pharmacological Screening of Novel Heterocyclic Compounds

65	Prashik Bhimrao Dudhe	Doctoral	Design, Synthesis and Biological Evaluation of Novel Antitubercular Agents
66	Agrawal Milan Bharatbhai	Doctoral	Formulation, Characterization and Optimization of Paclitaxal Nanoparticles
67	Hiral Dineshbhai Koradia	Doctoral	Enhancement of Flow and Tableting Characteristics of Selective Active Pharmaceutical Ingredients by Adopting Different Techniques
68	Vaibhavkumar Baldevbhai Patel	Doctoral	Pharmacological Evaluation of Antiurolithiatic Activity of some Indian Medicinal Herbal Plant
69	Pandya Radhika Bhalchandra	Doctoral	Approaches Improve Dissolution of Selective Poorly Water Soluble API's Employing the Concepts of DOE
70	Pawar Neha Dilip	Doctoral	Pythopharmacological Evaluation of Nyctanthes arbortristis Calyx with Special reference to Metabolic Disorder and Cancer
71	Kanaiyalal Kailashbhai Panchal	Doctoral	Pharmacotherapeutic and Pharmacoeconomic Analysis of Coronary Stents in Acute Coronary Syndrome
72	Haksar Priyanka B.	Doctoral	Alcohol Resistant Coating Formulations
73	Vrundaben Chetankumar Suthar	Doctoral	Use of Vegetable Oil as a Versatile Excipient for overcoming various problems related with processing of Dosage Forms
74	Shah Brijesh Maheshkumar	Doctoral	Intranasal Colloidal Drug Delivery System for Brain Targeting of Drugs
75	Nirali R. Bhatt	Doctoral	Formulation Development Challenges: Poorly Soluble Drugs
76	Shaikh Muhammad Vaseem	Doctoral	Targeting of Cancer Stem Cells using Immunoliposomes
77	Manika Kala	Doctoral	Role of Stress and Stress Hormones on Ovulation and Implantation in Mice: Involvement of Adrenals
78	Ingawale Deepa Krushna	Doctoral	Herbal Drug as Modulators in Metabolic Syndrome with special reference to Diabetes Mellitus and Lipid Disorders

40. ***Number of post graduate and Ph.D. students getting financial assistance from the university:***

Year	Number of M.Pharm. Students	Ph.D. Students
2013-14	38	04

41. ***Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:***

Yes, the need assessment exercise was undertaken before the development of a new programme. Some of the highlights are described below:

- Data related to the requirement of human resource in the pharmaceutical sector published by well-known market research based organizations like Mckinsey, Global Consumer Confidence Index Survey by A C Nielsen for market research for consumer products, Associated Chambers of Commerce and Industry of India (ASSOCHAM), Price-water-house-coopers report, etc. were used for need assessment.
- After getting suggestions from the stakeholders and the members of the Advisory Committee, need analysis for the new programme was carried by the faculty members of the concerned department.
- Brain storming was carried out by involving industry experts, alumni and distinguished academicians.
- Then a draft curriculum was developed by the concerned department and presented in the Area Committee meeting.

42. ***Does the department obtain feedback from a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?***

- Yes, the feedback is taken from the faculty of each department through various committees of the Institute. The feedback is used to identify the gaps in the existing processes and also to formulate further strategies. It also helps in identifying new and effective process of problem solving and learning, introduction of formative evaluation mechanisms, introduction of new courses. The faculty also suggests changes like: (a) changes in existing syllabus in terms of adding a new course (b) adding few topics in existing courses or (c) in certain cases suggestions for new programme in emerging area.
- The revised curriculum and the curriculum for new courses are discussed further in the Area Committees which comprises faculty, industry experts and experts from the academia.
- Recommendations are then forwarded to the Faculty of Pharmacy at the Institute level.
- Finally the approval is taken from the Academic Council at the University level.
- It is worthwhile to note that, the curriculum and course syllabi for the B. Pharm. Programme went through the rigorous process of deliberations at

various levels and revised curriculum was implemented from the academic year 2013-14.

b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

- The feedback from the students is taken during every semester and also at the end of their stay at the University. The feedback is obtained on the curriculum aspects, faculty members, infrastructure and campus facilities.
- The inputs helps in streamlining the existing teaching learning methodology and identifying means for further quality improvement of campus facilities, etc.
- The feedback from the students is also considered to felicitate the faculty members on the Foundation Day.

c) alumni and employers on the programmes offered and how does the department utilize the feedback?

- The institute on a regular basis obtains the feedback with respect to the developments in the industry and research from alumni, employers and peer experts. It is then incorporated in the curriculum. The changes suggested could be (a) changes in existing curriculum in terms of adding a new course (b) adding few topics in existing courses or (c) in certain cases suggestions for new programme in the emerging area.
- The revised curriculum and the syllabi for new courses are then discussed in the Academic Area Committees, which comprise–faculty, industry experts and experts from the academia. Recommendations are then forwarded to the Faculty of Pharmacy.
- Finally, the approval is taken from the Academic Council at the University level.

43. **List the distinguished alumni of the institute (maximum 10)**

Sr. No.	Name of Alumni	Program Studied at Institute	Present Designation of Alumni
1	Mr. Sujal Mayatra	B.Pharm.	IAS (Indian Administrative Services, Govt. of India)
2	Dr. Nitesh Shah	M.Pharm. (Pharm. Tech.)	Head - Technical Services, South Asia at Evonik (Excipient Company), Mumbai

*First batch of M.Pharm. and B.Pharm. passed out in the year 2006 and 2007, respectively. Hence not many alumni members have reached to a distinguished level.

44. **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**

- The Institute has organized 06 National Conferences / Seminars and 12 Workshops.
- Apart from these, seven expert lectures by international speakers and 56 expert lectures by national speakers were arranged for the students.

- Industrial visits were also organized for the students.

The details will be provided to the peer team at the time of visit as **Annexure- XIII**.

45. **List the teaching methods adopted by the faculty for different programmes:**

- Chalk and Talk Method
- ICT Tools
- Self-Learning
- Experiential Training

46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The Institute has adopted philosophy of Outcome Based Education for all its programmes. The Programme Learning Outcomes (PLOs) are aligned with the Vision and the Mission of the University. The PLOs focus on three categories, i.e., development of professional knowledge and skills, inculcation of employability skills and development of character and social responsibility.
- Besides the core courses in a curriculum, numerous supplementary and enrichment courses are introduced in each programme to ensure the all-round development of students.
- Good communication skills training is facilitated by provisioning of Language Laboratory and activities of Career Counseling and Placement Cell.
- Apart from regular classroom interactions supported by practicals, students are supported to conduct projects, seminars, while guest lecturers from the Industry offer advanced classes. These special lectures are combined with presentations, case studies, group discussions for better outcomes. There is extensive use of ICT also which facilitates the achievement of the intended learning outcomes.
- The curriculum focuses on gaining knowledge both practical and conceptual along with employability. Assessment of students is done on a continuous basis throughout the course both by written and oral examinations. Quality of question papers is regularly reviewed by departmental committee and experts of Area Committee.

47. **Highlight the participation of students and faculty in extension activities**

Extension Activities carried out by the Institute of Pharmacy:

Sr. No.	Type of Activity conducted	Dates	Beneficiaries	No. of participants	Impact
1	Diabetes Awareness Programme	19th December 2011	Public	15 students / 3faculty from IP NU	Public Awareness created about 'Diabetes'
2	Diabetes Awareness Programme	26th December 2011	Public	15 students / 3 faculty from IP NU	Public Awareness created about 'Diabetes'

3	Nutrition, Sanitation and Vaccination Awareness Camp	11th January 2012	Rural Primary School Children	20 students	Awareness created among School Children
4	Health Awareness Camp	5th March 2013	Rural, School children	25 students	Awareness created among School Children
5	Awareness Camp	5th October 2013	Rural, School children	12 students	Awareness created among School Children
6	Elocution, Quiz and Essay Competition	10-11th January 2014	Students of Nirma University	150 students	AIDS related Awareness was created amongst the students
7	Awareness camp	8th March 2014	Rural Primary school children	18 students	Awareness created among School Children

Extension activities carried out by student association NIPSA:

Sr. No.	Type of Activity conducted	Dates	Beneficiaries	No of participants	Impact
1	Old Age Home Visit	4th November 2012	Old people	70 students	Students develop sense of respect for elders
2	Blood Donation Camp	9th October 2012	Any one	81 students	Needy people will get blood
3	Medical Camp	26th August 2012	Navavas Village and Makkanchampa Village, Danta, Banaskantha	50 students	Awareness increased amongst Socially Backward People
4	Blood Donation Camp	3rd October 2013	All needy people	80 Students	Work for Society
5	Blood Donation Camp	3rd September, 2014	All needy people	85 students	Work for Society
6	Plantation Drive	4th August and 8th August, 2014	Institute and nearby area	40 students	Environment Awareness created among students
7	Old Age Home Visit	21st September 2014	Ladies of Maniben Tribhowandas Parikh Matrugh	30 students	Students developed sense of respect for elders

Activities where the Faculty or the Students have participated as Volunteers:

Sr. No.	Type of Activity conducted	Dates	Beneficiaries	No of participants	Impact
1	Cancer Charity Walk	28th July 2011	Public	40 students	Public awareness created about Cancer
2	Datri Foundation Stem Cell Donation	8th December, 2012	--	200 persons	Stem cell matching with any needy can save his/her life
3	Bone Marrow Donation Activity	10th October 2014	--	59 students	To save the life of some needy person

48. ***Give details of “beyond syllabus scholarly activities” of the department***

- Idea Lab
- Poster Presentations related to research work at institute and outside institute activities
- Inclusion of Massive Online Open Courses for Ph.D. and M.Pharm. semester III students
- Review/research based projects given to all B. Pharm. Semester VII and VIII students and evaluation of two best projects from each department through poster presentation competition.
- Student participation in technical and scientific events organized by the institute and by student association - NIPSA.
- Organizing Pre-GPAT activities for B.Pharm. students
- Participation of students in co-curricular activities based on advances in the field of Pharmaceutical industries like debate, elocution, extempore, documentary making, pharma skit, Nirmaquest, poster making, model making, etc.
- Student Industrial Training and Visits
- Summer Training
- Active involvement in organizing various events like Rostrum, NirmaQuest, NIPICON, Workshops, etc.

49. ***State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.***

The Fee Regulatory Committee (FRC) of Government of Gujarat has put the institute in ‘Top Bracket’ - the highest category.

50. ***Briefly highlight the contributions of the department in generating new knowledge, basic or applied.***

- The M. Pharm. and Ph.D. students have to prepare and submit dissertation thesis under the guidance of the faculty members. The thesis is a part of repository of the Institute library.
- Under graduate, Post graduate and Ph.D. students are encouraged for Poster Presentations in the conferences and seminars within and outside the University.
- Many students are co-investigators in filing patents along with the faculty

members.

- It is mandatory for the Ph.D. students to publish two research papers in peer reviewed journals.
- The faculty members are actively involved in publishing research papers, reviewing articles and book publications.
- The faculty members do research paper presentation in various conferences/seminars, etc. nationally and internationally.

51. ***Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.***

Major Strengths:

1. State of Art and Modern Infrastructure (ICT, Wi-Fi enabled) and Learning Resources
2. Prestigious Image for Quality Education
3. Well Defined Management, Administrative and Institutional Policies
4. Rigorous Curriculum Development and Assessment through Continuous Evaluation System
5. More than 80% faculty members have Ph.D. degree and high retention of faculty members

Major Weaknesses:

1. Lack of Major Research Funding from External Agencies
2. Deficit of High-End Instrument Facilities
3. Lack of National and International Research Collaboration and Linkages
4. Lack of Highly Experienced and Distinguished Faculty Members

Major Opportunities:

1. MOUs and Research Linkages with National Laboratories
2. More Consultancy and Projects from Pharmaceutical Industries
3. Increase in filing of Patents and Technology Transfer
4. Strong Industry Institute Interaction and Networking

Major Challenges:

1. Admission and Competitive Scenario in Pharmacy Education
2. Attracting Foreign Students and Faculty Members
3. Placement of Students with Higher Packages
4. Availability of Distinguished Faculty
5. Opening of new NIPERs at various places in the country

52. ***Future plans of the department***

The Institute has envisaged its strategic plan with strategic intent as follow:

- To achieve recognition as a National Centre of Excellence in the field of autoimmune and infectious diseases and to be amongst top 15 pharmacy institutes in the country.

Four main strategic goals are listed below:

1. To attract eminent faculty members of diverse competencies
2. As per the need of the society, build education programmes to meet the

- challenges of professional world and equip the students with required skills.
3. To establish sustainable partnership with the industry and to enhance placement opportunities
 4. To promote and sustain research activities

ANNEXURE – I
Faculty Profile (Institute of Pharmacy)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for Last 4 Years
1.	Ghate Manjunath Darbhe Madhavabhat	M. Pharm., Ph.D.	Director & Professor	Pharm. Chem.	18	07
2.	Mehta Tejal Amit	M. Pharm., Ph.D.	Professor	Pharm. Tech.	17	15
3.	Singhai Vimalkumar Rajaram	M. Pharm., Ph.D.	Professor	Pharmacognosy	18	06
4.	Mehta Priti Jignesh	M. Pharm., Ph.D.	Professor	Pharm. Analysis	16	10
5.	Shah Jigna Samir	M. Pharm., Ph.D.	Professor	Pharmacology	17	02
6.	Acharya Rameshchandra Sanjeev	M. Pharm., Ph.D.	Associate Professor	Pharmacognosy	12	08
7.	Bhatt Hardik Girishkumar	M. Pharm., Ph.D.	Associate Professor	Pharm. Chem.	10	05
8.	Patel Mayur Mahendrakumar	M. Pharm., Ph.D.	Associate Professor	Pharm. Tech.	08	04
9.	Butani Shital Bhavin	M. Pharm., Ph.D.	Associate Professor	Pharm. Tech.	12	07
10.	Panchal Shital Sharad	M. Pharm., Ph.D.	Assistant Professor (Associate Professor)*	Pharmacology	10	10
11.	Savjani Jignasa Ketan	M. Pharm., Ph.D.	Assistant Professor (Associate Professor)*	Pharm. Chem.	11	--
12.	Acharya Niyati Sanjeev	M. Pharm., Ph.D.	Assistant Professor (Associate Professor)*	Pharmacognosy	12.5	05
13.	Kothari Charmy Shital	M. Pharm., Ph.D.	Assistant Professor	Pharm. Analysis	10	06
14.	Patel Snehal Sanjaykumar	M. Pharm., Ph.D.	Assistant Professor	Pharmacology	12.5	06
15.	Mishra Renuka Deepak	M. Pharm., Ph.D.	Assistant Professor	Pharm. Tech.	10	01

16.	Patel Bhoomika Mayur	M. Pharm., Ph.D.	Assistant Professor	Pharmacology	09	03
17.	Bhadada Shraddha Vikas	M. Pharm., Ph.D.	Assistant Professor	Pharmacology	09	--
18.	Parikh Dhaivat Chandrakant	M. Pharm., Ph.D.	Assistant Professor	Pharm. Tech.	09	--
19.	Shah Jigar Nareshkumar	M. Pharm., Ph.D.	Assistant Professor	Pharm. Tech.	10.5	--
20.	Tripathi Nagja Vidhushekhar	M. Pharm.	Assistant Professor	Pharmacognosy	12	--
21.	Patel Nrupesh Ramanbhai	M. Pharm.	Assistant Professor	Pharm. Analysis	08	--
22.	Gandhi Dipal Mahendrabhai	M. Pharm.	Assistant Professor	Pharmacognosy	07	--
23.	Patel Bhumika Dipen	M. Pharm.	Assistant Professor	Pharm. Chem.	07	--
24.	Vyas Vivek Kumar	M. Pharm., Ph.D.	Assistant Professor	Pharm. Chem.	08	--
25.	Parikh Palak Kirtibhai	M. Pharm.	Assistant Professor	Pharm. Chem.	3.5	--

* All these faculty members were working as Reader or equivalent in pre-revised scale. At the time of pay revision, they could not meet the prescribed criteria on a particular date and hence they were put in AGP of ` 8000/=. However, for all practical purpose they are in the second layer of teaching faculty, except Pay Band IV and have been shown under the category of Associate Professor, which is second layer in revision of scale.



**Self-Evaluative Report
of
Institute of Science**

Self-Evaluative Report of Institute of Science

(Assessment Period: January 01, 2010 to February 28, 2015)

1. **Name of the Institute:**
Institute of Science
2. **Year of establishment:**
2004
3. **Is the institute part of a School/Faculty of the university?**
Yes, The institute is a constituent institution of Nirma University.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**
Post Graduate Programmes:
 M.Sc. in Biochemistry
 M.Sc. in Biotechnology
 M.Sc. in Microbiology
 M.Sc. in Cosmetic Technology

Ph. D. Programmes:
 Full Time
 External
5. **Interdisciplinary programmes and departments/institutes involved:**
Interdisciplinary Programme:
 M.Sc. in Cosmetic Technology

Institutes involved:
 Institute of Science and Institute of Pharmacy
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

Sr. No.	Name of Course	Collaborative University/Industries/ Foreign Institute etc
1	Social Extension Activities	NGOs like Volun Teacher Organization, Ahmedabad; Blind People Association, Ahmedabad; B.M. Institute of Mental Health, Ahmedabad
7. **Details of programmes discontinued, if any, with reasons**
NIL
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**
Semester System
9. **Participation of the department in the courses offered by other department:**
 - The faculty members are involved in imparting teaching in Interdisciplinary

programme on 'Science, Technology and Law' being offered by the Institute of Law.

- Faculty members are members of the statutory body of the Pharmacy Faculty.

10. **Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors / others)**

Name of the Post	Sanctioned Post	Filled Post	Actual (including CAS & MPS)
Professor	4	1	1
Associate Professor	3	1	1
Assistant Professor	6	7*	7
Visiting Faculty		11	

*One Temporary Assistant Professor has been filled against the vacancy of Associate Professor.

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Currently, the institute has 9 faculty members with diverse areas of specialization such as Biochemistry, Biophysics, Biotechnology, Microbiology and Life Sciences.

The details can be found in Annexure-I, attached at the end of this report.

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:**

Sr. No.	Name of the Professor	Qualification	Visiting Fellows / Adjunct Faculty / Emeritus Professors
1	Prof. Vidyut Joshi	Ph.D.	Emeritus Professor

13. **Percentage of classes taken by temporary faculty – programme-wise information:**

Name of the Programme	Percentage of Classes Taken by Temporary Faculty in Year 2013-14
M.Sc.	5.93 %

14. **Programme-wise Student Teacher Ratio:**

Name of the Programme	Total No. of Students Enrolled	Sanctioned No. of Teachers	Student Teacher Ratio	Filled No. of Teachers	Student Teacher Ratio
M.Sc. in Biotechnology/ Biochemistry/ Microbiology	125	13	10:1	9	14:1

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled**

Name of the Position	Sanctioned Post	Filled Post
Number of Academic Support Staff / Laboratory Staff	05	04
Number of Administrative Staff	03	03

16. **Research thrust areas as recognized by major funding agencies:**

Sr. No	Funding Agencies	Major Research Thrust Areas
1.	GUJCOST, Gandhinagar	Immunology, Human Health
2.	GSBTM, Gandhinagar	Immunology, Agriculture Biotechnology, Human Health
3.	DBT, New Delhi	Agriculture Biotechnology, Environmental Biotechnology, Immunology, Protein Chemistry
4.	DST, New Delhi	Agriculture Biotechnology

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Faculty Members Involved :	08
National Research Projects :	15 (11 Ongoing; 4 Completed)
Nirma University Funded Projects:	12 (All Completed)
Major Funding Agencies:	GUJCOST & GSBTM, Gandhinagar DBT, New Delhi DST, New Delhi; Nirma University, Ahmedabad
Total Grants Received :	₹ 274.73 Lacs (₹ 268.77 Lacs from External Agencies and ₹ 5.96 Lacs from Nirma University)

The details will be provided to the peer team at the time of visit as Annexure – II.

18. **Inter-institutional collaborative projects and associated grants received:**
Inter-Institutional Collaborations:

Name / Title of Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
Effect of <i>C. crista</i> seed extract on	Dr. Sonal Bakshi	50000/-	Institute of Pharmacy	Dr. Niyati Acharya

genetic material: as <i>in vitro</i> genotoxicity assessment				
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National Collaborations:

Name / Title of Project	Name of Investigator	Grant Received (₹)	Name of Participating Inter-Institute	Name of Investigator from Participating Inter-Institute
Biotechnological Applications for Transforming the most abundant Bacteria from Industrial Waste Waters of South Gujarat for Bioremediation	Dr. Nasreen Munshi	27.00 Lacs out of total 55.00 Lacs sanctioned	Department of Biotechnology, Navsari Agriculture University, Navsari	Dr. Sanjay Jha

19. ***Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.***

Being a statutory private University, the University is not covered under UGC act 12(B), hence the institute is not eligible for funding from UGC. However, faculty members of Institute of Science have received financial assistance from DBT and DST, Government of India, GSBTM and GUJCOST, Government of Gujarat. Total Amount Received: ₹ 268.77 Lacs.

20. ***Research facility/Centre with (a) state recognition (b) national recognition (c) international recognition:***

Name of the Research Facility / Centre	Recognition
Insectarium for Malarial Research	State & National
Plant Growth Promotion Research Facility	National
Mammalian Cell Culture Facility	State & National
Protein Stability Research Facility	National

21. ***Special research laboratories sponsored by / created by industry or corporate bodies:***

NIL

22. ***Publications:***

- Total Number of Publications: 81
- International Research Publications: 74
- National Research Publications: 07

- Highest H index of the Faculty Member : 10
- Highest Citation Index: 358
- Number of Books: 16
- Number of Book Chapters Published : 05

The details will be provided to the peer team at the time of visit as Annexure – III, IV, V and VI.

23. ***Details of patents and income generated:***

Name of the Faculty Member	Title of the Patent	Patent filed in which Country	Year /Record of Patent filing	Current status of the Patent	Income Generated so far (in ₹)
Dr. Shalini Rajkumar, Mr. Maharishi Pandya (student), Dr. Bhavesh Kapadia	An improved formulation for sustained release of plant growth hormone and process of preparation thereof	India	2014 Patent filed (No. 1977/MUM/2014)	Patent Filed (Under Review)	NA

24. ***Areas of consultancy and income generated:***

List of Areas of Consultancy:

In vitro assessment of genotoxicity i.e. chromosome aberrations induced by exposure to a new drug molecule.

Income Generated from Consultancy:

₹ 10000/-

25. ***Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:***

The summary for the assessment period is as under:

- Eight faculty members have visited 12 national academic institutions
- Five faculty members have visited 10 national research institution
- One faculty member has visited 2 biotechnology industries

The details will be provided to the peer team at the time of visit as Annexure– VII.

26. ***Faculty serving in National committees b) International committees c) Editorial Boards d) any other***

- Eight faculty members are serving in various National Level Committees
- Four faculty members are in various International Committees
- Three faculty members are in the Editorial Board of Internationally Reputed Journals
- Five faculty members are in the reviewer panel of various National And International Journals

The details will be provided to the peer team at the time of visit as Annexure–VIII.

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**

Faculty Recharging Strategies:

Considering the importance of Faculty and Staff development activities, the University has set-up its own system of 'Faculty Development' under the supervision of a core committee headed by Director General. A senior professor is given charge of organizing and monitoring staff development activities.

The Faculty Development Programmes are arranged in four different categories, namely

- i) Induction Training Programme of 4 weeks for newly recruited faculty members before they go for class-room teaching
- ii) Orientation Programme of 2 weeks for teachers having 2-5 years of teaching experience
- iii) Refresher Course of 2 weeks
- iv) Research Orientation of 2 weeks

Summary of Faculty Recharging Programmes:

- Six faculty members have attended six Refresher Courses and Orientation Programmes offered by UGC Academic Staff Colleges
- Two faculty members have attended the Induction Programme organized by Nirma University
- Seven faculty members have attended 20 Training Programmes offered by various institutions to enhance their academic and research activities
- Eight faculty members have attended 23 state level, 19 national level and 34 international level conferences and seminars

The details will be provided to the peer team at the time of visit as Annexure– IX.

28. **Student project:**
Percentage of students who have done in-house projects including inter-departmental projects:

Year	Percentage of Students who have done In-house Projects including Inter-Departmental Projects
2010-11	100%
2011-12	100%
2012-13	100%
2013-14	100%

Percentage of students doing projects in collaboration with other universities industry / institute:

The students of Institute of Science are not deputed to other universities/institutes or industries for their dissertation projects, but the students avail the research facility of these centres for their dissertation projects. These include GSBTM, SICART, CSMCRI, NIOH, Gujarat University, S. P. University, M. S. University, Supratech Laboratories, Ahmedabad University, IIAR, Central University Gujarat, etc.

29. ***Awards / recognitions received at the national and international level by Faculty and Students***

- Seven national and international awards/recognition have been received by faculty members in the span of four years
- 29 national and international awards have been received by students in the span of four years

The details will be provided to the peer team at the time of visit as Annexure– X.

30. ***Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any***

- The Institute has organized 01 National Conference, 03 National Seminars/ Lecture Series and 01 Workshop.
- The Institute has received financial assistance from DBT, ICMR, GSBTM, GUJCOST and Indian Immunology Society to organize various events.

The details will be provided to the peer team at the time of visit as Annexure– XI.

31. ***Code of ethics for research followed by the departments:***

The Institute follows the Code of Ethics for Research as prescribed by the University. The copy of the same is attached as Annexure– A.

32. ***Student profile programme-wise (For year 2014):***

Name of the Programme	Applications Received	Admitted		Pass Percentage	
		Male	Female	Male	Female
M.Sc. (2012-2014)	177	22	49	94.59	97.72

33. ***Diversity of Students (For year 2014)***

Name of the Programme	% of Students from the same University	% of Students from other Universities within the State	% of Students from Universities outside the State	% of Students from other Countries
M.Sc.	-	84.85	13.64	1.51

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Examinations	Number of Students*
UGC-CSIR NET	12
SET	-
GATE	05
DBT	02
GRE	09
TOEFL	07
IELTS	03

*based on available data from Alumni.

35. **Student Progression**

Student Progression (For 2014 Pass out Batch)	Percentage against Enrolled*
UG to PG	NA
PG to M.Phil.	-
PG to Ph.D.	6.34 %
Ph.D. to Post-Doctoral	100 %
Employed through Campus Selection	14.28 %
Employed through other than Campus Recruitment	20.63 %
Entrepreneurs and self employed	---
Others	58.73 %

* based on the available data.

36. **Diversity of Staff:**

Percentage of Faculty Member who are Graduated	
From the same University	11.11%
From other Universities within the State	33.33%
From Universities from other States	55.56%
From Universities outside the Country	--

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

All the faculty members recruited at the Institute of Science possessed Ph. D. degree with relevant research and academic experience. However, one faculty member was recruited with UGC-LS, who later pursued his doctoral degree and which was awarded in 2011.

38. **Present details of departmental infrastructural facilities with regard to:**

a) Library:

Area: 115.95 sq.mt.

Total Number of Books (volumes): 2162

Total Number of Reference Books: 1766

Total Number of e-journals: 52
 Open Source Software: KOHA
 Institutional Repository is maintained using D-Space Open Source Software.

b) Internet Facilities for Staff and Students:

Internet-256 Mbps
 LAN, Wi-Fi, Remote log-in facility for faculty members and PG students.

c) Total Number of Class Rooms:

03

d) Class Rooms with ICT Facilities:

03

e) Students' Laboratories:

03

f) Research Laboratories:

03 Research Labs with Animal Cell Culture and Insectarium Facility

g) Conference Room:

01 with seating capacity of 30

39. **List of Doctoral, Post-doctoral Students and Research Associates:**

a) From the Host Institution/ University:

Sr. No.	Name of the Student	Doctoral / Post-Doctoral / Research Associates	Topic of Research
1.	Trivedi Disha Hareshbhai	Doctoral	Isolation, Characterization and Assessment of Antimicrobial Potential of Urino-Vaginal Microorganisms and their Application in the Development of Microbicides
2.	Palkhiwala SuhaniSujal	Doctoral	Study of Genotoxicity of Nanoparticles
3.	Hardikkumar Bipinchandra Patel	Doctoral	Understanding the changes induced in Liver-stage specific CD 8 + memory T cells following infectious sporozoite challenge that ensue long-lived protection against plasmodia infection
4.	Naveen Yadav	Doctoral	Requirement for Pre-erythrocytic Malaria Vaccine: Maintaining Protecting T-cells while keeping Auto-reactivity in check
5.	ManojPatidar	Doctoral	Development of a Chimeric IL-15 to augment T-cell Response and Memory
6.	Fulesh Kunwar	Doctoral	Human Congenital Disorders: A study of underlying genetic changes, manifestation & mechanism

7.	Aditi Mathur	Doctoral	Role of Non-Immunogenic Antigens in Determining Immunogenicity of Target Antigen to Induce Protective Immunity
8.	Rajesh Parmar	Doctoral	Understanding the Nature of innate immunity induced by infectious Sporozoite Challenge that Ensure Long-Lived Immunity to Liver-Stage Specific Plasmodia Infection Medicated by CD8+ T Cells
9.	Madhvi Joshi	Doctoral	Effect of hyperglycemia and insulin treatment on myelination in streptozotocin-induced diabetic rats
10.	Parmar Krupali Jitendra	Doctoral	Purification and Characterization of a Thermoactive and Thermostable Lipase from a Haloalkaliphilic Microorganism

b) From Other Institutions/ Universities:

Sr. No.	Name of the Student	Doctoral / Post-Doctoral / Research Associates	Topic of Research
1.	Harshita Chaudhary	Doctoral	Screening and Evaluation of various Plant Extract as anti-cancer and multi Drug Resistance Reversal Agent
2.	Jog Rahul Narendra	Doctoral	Diversity and Plant Growth Promotion Abilities of Actinomycetes in Wheat Rhizosphere of Gujarat Region
3.	Jena Prasant Kumar	Doctoral	Role of Probiotic Lactobacillus on the Physiology and Gastrointestinal Immunology in Response to Dietary Status of Rat
4.	Pandya Maharshi Piyooshbhai	Doctoral	Role of Non-Rhizobial Rhizobacteria and Rhizobia on the Nodule Development in Legumes
5.	Rajput Mahendrapal Singh M.	Doctoral	Carbon Catabolite Repression of Organic Acids in Phosphate Solubilizing Klebsiella Species
6.	Purandhar Kaveri	Doctoral	Analysis of Single Nucleotide Polymorphism (SNP's) in Human Sperm and in Neutrophil Mitochondrial DNA
7.	Trivedi Disha Hareshbhai	Doctoral	Isolation, Characterization and Assessment of Antimicrobial Potential of Urino-Vaginal Microorganisms and their Application in the Development of Microbicides
8.	Valani Darshan Tulsibhai	Doctoral	Study of Genetic Toxicity Potential of Pharmaceutical Molecule/s
9.	Patel Palak Narendrabhai	Doctoral	To Identify Compounds Form Plants having the Potential to prevent Protein

			Aggregation
10.	Tandel Kirankumar Chhotubhai	Doctoral	Selection of Therapy in Chronic Myeloid Leukemia
11.	Zala Dolatsinh Balvantsinh	Doctoral	Development of Immunodiagnosis for Early Detection of Leptospirosis
12.	Zaveri Purvi Dilipkumar	Doctoral	Investigation of functional Microbial Diversity and Exploration of Inherent Bacterial Flora in Common Effluent Treatment Plants of South Gujarat for Hydrocarbon Bioremediation
13.	Prajapati Bhumika Jayantkumar	Doctoral	Elucidating the Role of Pathogen Pattern Recognition Receptors (PPRs) and Inflammatory Mediators following Gut Microbiota Alteration and in Diet induced Type 2 Diabetes
14.	Bhagya Nagarajan Iyer	Doctoral	Biochemical basis of repression of MPS Phenotype in Rhizobia
15.	Trivedi Varsha Bhagavat Prasad	Doctoral	Study of Antibody Mediated Rejection and Infection in Renal Transplant Patients Single Centre
16.	Parth Pankajbhai Rajput	Doctoral	Understanding the Role of Adipose Tissue Receptor and Inflammatory Mediators following Gut Microbiota Shift in Diet Induced Type 2 Diabetes
17.	Saiyed Nazia Mohammedahmed	Doctoral	A Study of Birth Defects: Genetic, Epigenetic and Environmental Determinants

40. ***Number of post graduate and Ph.D. students getting financial assistance from the university:***

Institute of Science has been providing Institutional Fellowship/financial assistance to full-time Ph. D. students to pursue their research.

Year	Number of Students
2013-14	02

41. ***Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:***

Yes, need assessment exercise was carried out before the initiation of M. Sc. Cosmetic Technology.

The feedback was obtained from various healthcare industries and institutions. The list of universities offering the said course is very few while the demand of the healthcare sector is tremendous. It was strongly recommended to initiate a post graduate course on Cosmetic Technology with a flexibility of students from diverse academic background in their graduation degrees.

42. ***Does the department obtain feedback from***
a) *Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?*

- The faculty members regularly review the syllabus based on the feedback received from the students, their performance, advances in the respective areas and feedback from academic peers.
- The same is put forward in the faculty meetings for incorporation and further discussion in the Board of Studies and formal approval in higher bodies.

- b) *Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?***

Yes, the Institute has a formal mechanism of obtaining feedback from the students involving specific questionnaire. The feedback obtained is analyzed and suggestions incorporated in the form of change in syllabi, teaching methods and administrative measures.

- c) *Alumni and employers on the programmes offered and how does the department utilize the feedback?***

The Institute has been taking informal feedback from the employers and the alumni. The students are particularly interested in pursuing for their higher studies in the form of doctoral programmes across the globe. Formal feedback has been taken from the academic peers and the same was deliberated upon in the Board of Studies before being incorporated in the curriculum.

43. ***List the distinguished alumni of the institute:***

The alumni of the Institute are placed in various research & development sector of biotech as well as pharmaceutical industries, are pursuing their doctoral work at various universities within the country as well as abroad. Four of our former Ph.D. students have been awarded post-doctoral fellowships to pursue their postdoctoral research in countries like Germany, Japan and USA.

Sr. No.	Name of the Alumni	Programme Studied at Institute	Present Designation
1	Jui Dave	M. Sc. Biotechnology	Doctoral Student with full scholarship, Texas A&M, USA
2	Anusha Sanghvi	M. Sc. Biochemistry	Marketing & Communications Coordinator- Ikya Human Capital Solutions Ltd, Bangalore
3	Jisha P James	M. Sc. Microbiology	Product Manager, Amul India
4	Swati Nair	M. Sc. Biochemistry	Scientific Content Writer, Jetbro
5	Harshita Chaudhary	Ph. D. Biotechnology	Post-Doctoral Fellow in Germany
6	Bhavesh Khevadia	Ph. D. Biotechnology	Post-Doctoral Fellow in USA
7	Rahul Jog	Ph. D. Biotechnology	Post-Doctoral Fellow in Japan
8	Prasant Kumar Jena	Ph. D. Biotechnology	Post-Doctoral Fellow in USA

44. ***Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:***

The Institute has been arranging a number of expert lectures and seminars to enrich the students. The Institute has organized around 36 such lectures for the students.

The details will be provided to the peer team at the time of visit as Annexure– XII.

45. **List the teaching methods adopted by the faculty for different programmes:**

- Lecture Method
- Laboratory Training
- Group Activities
- Group Discussion
- Seminars
- Blogs
- Industrial Visits
- Dissertation Projects

46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The course learning outcomes for each course has been designed in line with the Programme Educational Outcomes, Programme Learning Outcomes and finally the Graduate Attributes. The entire teaching, learning and assessment strategies are structured to enhance the learning of the students. Through interactive sessions, practical work, field visits and dissertation work, the students acquire adequate academic, behavioral, scientific and life skills. They are also trained to be more socially inclined through extension activities and also informed about their rights and duties.

47. **Highlight the participation of students and faculty in extension activities**

The Institute has been encouraging extension activities under three categories, i.e., as a part of curriculum; organized by the students and as a volunteer.

The Institute had organized 05 activities as a part curriculum; 02 activities were organized by the students. The students participated as volunteers in 08 different activities.

The details will be provided to the peer team at the time of visit as Annexure– XIII.

48. **Give details of “beyond syllabus scholarly activities” of the department**

- The Institute has been organizing seminars and conferences on specific research themes for inculcating research aptitude. These conferences and seminars provide an ideal platform for the students to interact with eminent researchers.
- In addition, the Institute also invites senior academicians and researchers from institutions and industry to deliver special lectures on specific topics related to various courses to provide an in depth as well as holistic view of current topics of interest.
- The Institute also organizes students’ visit to various academic, research laboratories as well as to R&D facility of biotech as well as pharma Industries to expose and educate students with the state of the art instruments.
- The students are also encouraged to publish their results generated during their dissertation projects in the various national and international journals of repute.

49. ***State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.***

NO

50. ***Briefly highlight the contributions of the department in generating new knowledge, basic or applied.***

- The faculty members of the Institute have been actively involved in various research activities. All these activities have benefited in the generation of both basic as well as applied knowledge.
- The faculty members have been involved in publishing their research findings in national and international journals, as book chapters as well as published books. Additionally, the faculty members also have many research projects to support their research activities.
- To generate newer ideas, the Institute has been organizing seminars, conferences and workshops to provide a platform for scientific deliberations on many scientific issues.
- To inculcate scientific and research inclination among the students, all the students have to select a research problem in their 2nd semester. In the subsequent semesters, they conduct studies and discuss their findings.
- All the Post graduate students are trained for research aptitude during their 3rd and 4th semester, through the In-House Dissertation. During this period, the presentation skills of the students are also improved along with their analytical thinking abilities. Some of the findings generated during their dissertation phase have been published in various national and international journals of repute.

51. ***Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.***

Major Strengths:

1. All the faculty members at Institute of Science have Ph. D. Degrees in diverse field of Biological Sciences and are recognized Ph.D. guides with students working for their doctoral degree.
2. DSIR Recognition for its research activities
3. The faculty members are actively involved in research activities and are owing to that are members in the Editorial Boards and Reviewer Panels of various national and international Journals of repute.
4. All the classrooms are aided with ICT tools.
5. Laboratories and Library are well equipped with research infrastructure and have access to various e-journals.

Major Weaknesses:

1. There is need of more senior level faculty members
2. High end equipment are lacking.
3. Non-availability of In-campus residential quarters for faculty members and research scholars.
4. Lack of infrastructure grant to build or support the specialized research facility.

Major Opportunities:

1. Due to the presence of reputed pharmaceutical and biotech industries in the nearby vicinity improves the placement opportunities for the students.
2. Conducive Environment for the development of Biotechnological Programme is provided by the Government of Gujarat.
3. Due to the close interaction with other Institutions within the campus, it benefits the faculty members for Inter-disciplinary academic as well as research activities.
4. The Institute could explore more avenues to attract students from rest of India and abroad, establish national and international collaborations.

Major Challenges:

1. To connect the educational programmes and their objectives with the needs of students and the society and to enhance their employability.
2. Attracting quality students for Post Graduate as well for Doctoral Programme.
3. Strengthening of Alumni Association to lend a helping hand towards Institution building.
4. Drop in the Intake in the B.Sc. level
5. Entry of Foreign as well as Central Universities

52. ***Future plans of the department***

- Strengthening the existing PG & Ph.D. Programmes
- Expanding the faculty with specialized research interests
- Improving the infrastructure for Research & Teaching
- Initiating & Strengthening National & International Collaborative Research
- Publishing Papers in High Impact Factor Journals
- Initiating Interdisciplinary and Multi-Institutional Projects

ANNEXURE – I
Faculty Profile (Institute of Science)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided in Last 4 Years
1	Prof. Sarat Dalai	Ph.D.	Professor Director I/c.	Biotechnology	16 years Research, 4 years Teaching	--
2	Dr. Shalini Rajkumar	Ph.D.	Associate Professor	Microbiology and Molecular Biology	10 years Teaching	02
3	Dr. Sonal Bakshi	Ph.D.	Assistant Professor	Life Sciences	26 years Research, 4 years Teaching	--
4	Dr. Sriram Seshadri	Ph.D.	Assistant Professor	Zoology (Comparative Endocrinology and Immunology)	11 Years Teaching, 11 Years Research	03
5	Dr. Mili Das	Ph.D.	Assistant Professor	Biochemistry & Biophysics	4.5 years Teaching, 9 years Research	--
6	Dr. Vijay Kothari	Ph.D.	Assistant Professor	Microbiology	9.5 years Teaching, 1.5 years Research	--
7	Dr. Nasreen Munshi	Ph.D.	Assistant Professor	Microbiology	7 years Teaching, 6 years Research	--
8	Dr. Ameer Nair	Ph.D.	Assistant Professor	Biotechnology	4.5 years Teaching, 5 years Research	--
9	Dr. Heena Dave	Ph.D.	Ad hoc Assistant Professor	Life Sciences	1 year Teaching, 4 years Research	--



**Self-Evaluative Report
of
Institute of Law**

Self-Evaluative Report of Institute of Law

(Assessment Period: January 01, 2010 to February 28, 2015)

1. ***Name of the Institute:***
Institute of Law

2. ***Year of establishment:***
2007

3. ***Is the institute part of a School/Faculty of the university?***
Yes, The institute is a constituent institution of Nirma University.

4. ***Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)***
Under Graduate Programme:

 Five Year Integrated
 B.A., LL.B. (Hons.)
 B.Com., LL.B. (Hons.)

Post Graduate Programmes:
 One Year LL.M. Programmes in
 - Constitutional and Administrative Law
 - Corporate and Commercial Law
 - Criminal and Security Law
 - Legal Pedagogy and Research
 - Science, Technology and Law
Ph. D. Programmes:
 External

5. ***Interdisciplinary programmes and departments/institutes involved:***
Interdisciplinary Programme:
 LL.M. in Law, Science and Technology

Institutes involved:
 Institute of Law, Institute of Science and Institute of Technology

6. ***Courses in collaboration with other universities, industries, foreign institutions, etc.***
 The following courses are offered in collaboration with legal professionals and institutions:
 - Legislative Drafting
 - Public Interest Litigation
 - Arbitration and Conciliation
 - Forensic Law
 - Litigation and Advocacy
 - Mergers and Acquisition

7. ***Details of programmes discontinued, if any, with reasons***

The following programmes are discontinued at Institute of Law during the assessment period:

B.B.A., LL.B. (Hons.)- Five Year Integrated Programme

To sustain and enhance quality of academic initiatives at the Institute and also to maintain qualitative students, looking to the intakes of other prominent National Law Schools, it was decided to reduce the intake from 240 to 180, by discontinuing the B.B. A., LL.B. (Hons.) Programme, which was introduced in the year 2012.

LL.M. (Business Law) Two year programme

UGC has permitted the introduction of LL.M. one year programme, which has a huge demand. The Institute has introduced one year LL.M. programme with five specializations, hence the admission to two year program was staggered.

8. ***Examination System: Annual/Semester/Trimester/Choice Based Credit System***

UG Programmes – Semester System

PG Programmes – Trimester System

9. ***Participation of the department in the courses offered by other department:***

- Ethics - taught in Institutes of Science and Pharmacy
- Intellectual Property Rights - taught in the Institute-of Technology and the Institute of Pharmacy
- Law for Engineers - taught in the Institute of Technology
- Cyber Law - offered for all the constituent Institutes of the University
- Patent Law - offered for all the constituent Institutes of the University

10. ***Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors / others)***

Name of the Post	Sanctioned Post	Filled Post	Actual (including CAS & MPS)
Professor	06	02	02
Associate Professor	10	03	03
Assistant Professor	30	35*	35
Visiting Faculty		71	

*Additional five Assistant Professors are recruited against the post of Associate Professors.

11. ***Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:***

Currently, the institute has 40 faculty members, out of which 12 faculty members are with Ph.D. qualification and 14 faculty members have industrial experience.

The details can be found in Annexure–I, attached at the end of this report.

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:**

Sr. No.	Name of the Professor	Qualification	Visiting Fellows / Adjunct Faculty / Emeritus Professors
1.	Dr. Vidyut Joshi	Ph.D.	Emeritus Professor
2.	Hon'ble Justice Mr. C. K. Thakkar	Former Judge, SCI	Honorary Visiting Professor
3.	Hon'ble Mr. Justice J.N. Bhatt	Former Chief Justice, Patna High Court	Honorary Visiting Professor
4.	Prof. (Dr.) Yogesh Mehta	Ph.D.	Honorary Visiting Professor
5.	Prof. H.C. Dholakia	Ph.D.	Honorary Visiting Professor
6.	Prof. Chandrasekhar Pillai	Ph.D.	Research Chair Professor
7.	Dr. Nirbhaya Indrayan	Ph.D.	Adjunct Professor

13. **Percentage of classes taken by temporary faculty – programme-wise information:**

Name of the Programme	Percentage of Classes Taken by Temporary Faculty in Year 2013-14
B.A., LL.B. (Hons.) / B.Com., LL.B. (Hons.) / B.B.A., LL.B. (Hons.)	34%

14. **Programme-wise Student Teacher Ratio:**

Name of the Programme	Total No. of Students Enrolled	Total No. of Teachers		Student Teacher Ratio	
		Sanctioned	Existing	Sanctioned	Existing
UG: B.A., LL.B.(Hons.)/ B.Com., LL.B.(Hons.) /B.B.A., LL.B.(Hons.)	1078	45	40	24: 1	27:1
PG: LL.M. One Year Programme	15	03		5:1	

15. ***Number of academic support staff (technical) and administrative staff: sanctioned, filled***

Name of the Position	Sanctioned Post	Filled Post
Number of Technical Staff	05	04
Number of Administrative Staff	09	07

16. ***Research thrust areas as recognized by major funding agencies:***

- Environmental Law recognized by Ecological Commission of India

17. ***Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.***

Faculty Members Involved :	08
National Research Projects:	06 Ongoing and 02 Completed
Major Funding Agencies:	Gujarat Ecological Commission, Social Justice and Empowerment Department, Govt. of Gujarat, Nirma University
Total Grants Received :	₹ 21.55 Lacs

The details will be provided to the peer team at the time of visit as Annexure – II.

18. ***Inter-institutional collaborative projects and associated grants received:***

Inter-Institutional Collaborations:

NIL

International Collaboration:

NIL

National Collaborations:

NIL

19. ***Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.***

Being a statutory private University, the University is not covered under UGC act 12(B), hence it is not eligible for funding from UGC.

20. **Research facility/Centre with (a) state recognition (b) national recognition (c) international recognition:**

Name of the Research Facility / Centre	Recognition
Centre for International Humanitarian Law	International - International Red Cross Committee
Centre for Alternative Dispute Resolution	International - Chartered Institute of Arbitrators (Indian Chapter)

21. **Special research laboratories sponsored by / created by industry or corporate bodies:**

NIL

22. **Publications:**

• International Research Publications:	12
• National Research Publications:	57
• Number of Books Published :	26
• Number of Book Chapters Published	11

The details will be provided to the peer team at the time of visit as Annexure – III, IV and V.

23. **Details of patents and income generated:**

Not Applicable

24. **Areas of consultancy and income generated:**

Since the Institute is new, the focus has been more on strengthening the teaching-learning process. As the institute grows, we plan to focus on consultancy activities. The total income generated from consultancy is ₹7.24 Lacs. Consultancy assignments were in the areas of Environment Law and Legislative Drafting.

25. **Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:**

Name of the Faculty	Name of Laboratories / Institutions / Industries With Place	National / International
Sharita Sharma	The Netherlands Institute of Advance Studies (NIAS) in Humanities and Social Sciences, Radboud University, Nijmegen, Netherland	International
Madhuri Parikh	University Malaysia Terengganu, Kuala Terengganu, Malaysia	International
Purvi Pokhariyal	Bar Council of India, New Delhi	National
Purvi Pokhariyal	National Law Institute, Trichirupalli	National
Purvi Pokhariyal	Jindal Global Law School, New Delhi	National
Purvi Pokhariyal	National Law School, New Delhi	National

SaurabhSaroagi	Juris Corp, New Delhi	National
Victor Nayak	Amarchand and Mangaldas, National Law School of India University (NLSIU), Bangalore, Fox Mandal	National
Rejitha Nair	Mulla & Mulla & Craigie & amp; Caroe, Mumbai	National
Silky Mukherjee	National Law School of India University (NLSIU) Bangalore, University of Calicut	National
Rohit Moonka	University of Calicut	National
Renjith Thomas	National Law School, New Delhi	National
Krishnapal Mallik	University of Patiala	National
Bhumika Nanda	Indian Law Society, Pune	National
Anand Shinde	National Law School of India University (NLSIU), Bangalore	National
Krishnapal Mallik	Judicial Academy, Bharuch	National

26. ***Faculty serving in National committees b) International committees c) Editorial Boards d) any other***

Name of the Faculty	Role of Faculty Member	Name of National / International Committee or Editorial Board of a Journal	National / International
Harmik Vaishnav	Member, Editorial Board	Horizon Research Publication, USA	International
Harmik Vaishnav	Member, Editorial Board	South Asian Journal of Multidisciplinary Studies	International
Purvi Pokhariyal	Core Committee Member	Bar Council of India	National

27. ***Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):***

Faculty Recharging Strategies:

Considering the importance of Faculty and Staff development activities, the University has set-up its own system of 'Faculty Development' under the supervision of a core committee headed by the Director General. A senior professor is given charge of organizing and monitoring staff development activities.

The Faculty Development Programmes are arranged in four different categories, namely

- i) Induction Training Programme of 4 weeks for newly recruited faculty members before they go for class-room teaching
- ii) Orientation Programme of 2 weeks for teachers having 2-5 years of teaching experience
- iii) Refresher Course of 2 weeks
- iv) Research Orientation of 2 weeks

Summary of Faculty Recharging Programmes:

The Institute has conducted 20 programmes for faculty recharging during the assessment period. It included Faculty Development Programmes, Faculty Orientation Programme, Workshops and Training Programmes. Workshops and training programmes were conducted on teaching and evaluation, Outcome Based Education, Team Building, Research Methods and Plagiarism.

In addition to the above, the Institute also deputed faculty members to attend the training programmes from outside agencies. It includes Orientation and Refresher Programmes, conducted by UGC Academic Staff Colleges and other institutes. During the assessment period, a total of 57 faculty members had participated in such programmes.

The details will be provided to the peer team at the time of visit as Annexure– VI and VII.

28. ***Student project:***

Percentage of students who have done in-house projects including inter-departmental projects:

Year	Percentage of students who have done in-house projects including inter-departmental projects
2010-11	100 %
2011-12	100 %
2012-13	100 %
2013-14	100 %

Percentage of students doing projects in collaboration with other universities industry / institute:

Year	Percentage of students doing projects in collaboration with other universities / industry / institute
2010-11	100 %
2011-12	100 %
2012-13	100 %
2013-14	100 %

29. ***Awards / recognitions received at the national and international level by Faculty and Students***

The faculty and students of the Institute have got several awards at national and international forums. The faculty members have been awarded for Best Research Papers and for their expertise in various areas they have been recognized at various international and national conferences as keynote speakers and session chairs. A total of 17 faculty members have received awards/recognitions.

The students have been awarded for their performances in Moot Court Competitions, Model United Nations (MUN) and Parliamentary Debates at International and National levels. They have received awards in Harvard University, Institutes in France and Germany. They have also got recognition of best researchers, debaters, motors, speakers, best memorial and the best research papers. A total of 63 students has received awards/recognitions out of which 15 are international and 48 national.

The details will be provided to the peer team at the time of visit as Annexure– VIII.

30. ***Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any***

The Institute has organized a total of 29 Seminars/Conferences/Workshops in the last four years. The summary are as follows:

Type of Programme	Numbers
Workshops	13
Seminars	7
International Conference	2
National Conference	7
National Moot Court	2
International Moot Court	3

The details will be provided to the peer team at the time of visit as Annexure– IX.

31. ***Code of ethics for research followed by the departments:***

The Institute follows the Code of Ethics for Research as prescribed by the University. The copy of the same is attached as Annexure– A.

32. ***Student profile programme-wise (For year 2014):***

Name of the Programme	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
UG Programme: 2009 – 14 Batch B.A., LL.B. (Hons.) B. Com., LL.B.(Hons.)	479	103	68	98%	100%
PG Programme: 2013 -14 Batch LL.M. One Year	4	3	1	67%	0%
PG Programme: 2012 - 14Batch LL.M. Two Year	7	2	2	100%	100%

33. **Diversity of Students (For year 2014)**

Name of the Programme	% of Students from the same University	% of Students from other Universities/Schools within the State	% of Students from Universities/Schools outside the State	% of Students from other Countries
BA., L.L.B.(Hons.)/ B.Com., LL.B.(Hons.)	NA	11%	89%	0.5%
LL.M. (One Year)	20%	47%	33%	0%

34. **How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Examinations	Number of Students*
CLAT for Post-Graduation	158

*based on available data from Alumni

35. **Student Progression**

Student Progression	Percentage against Enrolled*
UG to PG	27
PG to M.Phil.	0
PG to Ph.D.	21
Ph.D. to Post-Doctoral	0
Employed through Campus Selection	24
Employed through other than Campus Recruitment	29
Entrepreneurs (Practicing Lawyers)	23

* based on the available data

36. **Diversity of Staff:**

Percentage of Faculty Member who are Graduated	
From the same University	00%
From other Universities within the State	30%
From Universities from other States	70%
From Universities outside the Country	00%

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Five faculty members have received Ph.D. degree during the assessment period.

38. **Present details of departmental infrastructural facilities with regard to:**

a) Library:

Area: 575.94 sq.mt.

Total number of book volumes: 9905

Total number of book titles: 7887

Law Reports: 26

National Law Journals and Periodicals: 66

International Law Journals and Periodicals: 27

Online databases: 09

CD-ROM Databases: 09

Back Issues Titles: 21

Back Issues Bound Volumes: 2740

Special Reference Collection: 26

International Law Resource Centre:

The well-equipped International Law Resource Centre has been established with unique resources. The Centre houses a rich collection of International Law Reports published by the Cambridge University in 150 bound volumes and online database such as Oxford Report on International Law. Institutional Repository is maintained, using D-Space open source software.

b) Internet Facilities for Staff and Students:

Internet-256 Mbps

Wi-Fi connections to all teaching and non-teaching staff

c) Total Number of Class Rooms:

19

d) Class Rooms with ICT Facilities:

18

e) Students' Laboratories:

01 (Computer Centre)

f) Research Laboratories:

05

g) Seminar Hall / Auditorium:

01 with seating capacity of 200

h) Conference Room:

01 with seating capacity of 30

i) Moot Court Hall:

State of art moot court hall equipped with all the modern facilities to enable real life mooting experience

j) Campus Recruitment Cell:

01

k) Classrooms are having mock trial facility

05

39. **List of Doctoral, Post-doctoral Students and Research Associates:****a) From the Host Institution / University:**

Name of the Student	Doctoral / Post-Doctoral / Research Associates	Topic of Research
Rashmi Kumari Gautam	Doctoral	Critical Analysis of Legal framework relating to Municipal Solid Waste Management with special reference to Gandhinagar in the State of Gujarat.
Aum Kotwal	Doctoral	Infringement of Article 370: Evolution, Intricacies and deliberation.
Ripal Gupta	Doctoral	Corporate Criminal Liability: A Critical Study of constructive Liability.
Nirbhay Prakash		Research Associate
Ankita Shukla		Research Associate
Saurabh Saraogi		Research Associate

b) From Other Institutions / Universities:

Name of the Student	Doctoral / Post-Doctoral / Research Associates	Topic of Research
Kanchan N. Samptani	Doctoral	Critical Analysis of Outer Space
Shivani Bharatbhai Joshi	Doctoral	Critical Analysis of Data Protection Laws, A Comparative Study

40. **Number of post graduate and Ph.D. students getting financial assistance from the university:**

Year	No. of Students
2014-15	05

41. ***Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:***

Yes, a need assessment exercise is undertaken before the development of new programmes through the following process:

- The decision to introduce the programme is taken through the inputs received from stakeholders and also through the suggestions from the Academic Advisory Committee, consisting of experts in the field of law.
- The Academic Advisory Committee on an average meets twice in an academic year. During the meeting all the recent developments pertaining to legal education are discussed and the academic structure is reviewed. After detailed deliberations the decision is taken regarding introduction of new courses as well as the introduction of new programmes.
- Detailed analysis is conducted on the recent developments in legal education and the success of similar programmes offered in other institutes.
- Brainstorming sessions are arranged with the experts and faculty members with the collected information.
- Final feedback from the Academic Advisory Committee is again discussed with the faculty members. The initial structure is finalized on the basis of suggestions from the faculty.

42. ***Does the department obtain feedback from***
a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, feedback is taken from the faculty during and at the end of every semester. The feedback is used to identify the gaps in the existing processes and also to formulate further strategies. It also helps in identifying new and effective process of problem solving and learning.

b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Student feedback is taken during every semester and also at the end of the five years of their study at the University. In addition to this, feedback is also collected through informal interaction of the convener of each semester with the students. The inputs helps in streamlining the existing teaching learning methodology, introduction of formative evaluation mechanisms, introduction of new courses and identifying means of improving on their legal skills.

c) alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedback is taken from the alumni and employers. The feedback is used to design the training programme, attuning the syllabus as per the market demands, introduction of employability tests and to prepare legal professionals who contribute in nation building and creating a just society.

43. ***List the distinguished alumni of the institute (maximum 10)***

Only three batches have passed out from the Institute, hence the alumni are yet to make a distinguished contribution in their respective field.

Sr. No.	Name of the Alumni	Programme of Study at the Institute	Year of Pass out from the Institute	Present Designation of the Alumni
1.	Swarnabh Dutta	B.A., LL.B. (Hons.)	2014	Legal Officer, United Nations High Commission for Refugees (UNHCR)

44. ***Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:***

- The Institute organizes special lectures on a regular basis. The experts for the lectures includes senior advocate, judges, Professor of International Universities, Ambassadors, Global General Counsel, Attorney General of India, Editors and Senior Academicians.
- Workshops are conducted on Mediation, Legal Research, Legislative drafting, arbitration training, public Interest Lawyering, Paralegal training and legal aid.
- In addition, student conference on International humanitarian law is organized every year. The details of the programmes organized is as follows:

Particulars	Numbers
Special Lectures	41
Workshops	10
International Student Conference	05
Seminars	06

The details will be provided to the peer team at the time of visit as Annexure– X.

45. ***List the teaching methods adopted by the faculty for different programmes:***

- Lecture Method
- Experiential Learning
- Blogs
- Cooperative Teaching
- Clinical Exercises
- Case Method
- Moot Court
- Mock Trials
- Seminars
- Presentation
- Workshops
- Role Play
- Drama
- TED Talks
- Podcasting
- Group Discussions

46. ***How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?***

The Institute has introduced Outcome Based Education and in order to map the outcomes various methods have been identified. The details of the methods used are as follows:

- Micro Teaching Plan is prepared for all the courses and it indicates the different mechanisms that are used by the faculty members for course delivery. These delivery mechanisms are monitored closely by the members of Academic Delivery System (ADS).
- The Continuous Evaluation Process is very structured. Moodle Exams are conducted for all courses and it focuses on the portion identified for self-study topics. In addition to it experiential learning is used for all courses.
- The Conveners of each Semester hold a weekly meeting with the faculty to assess the progress of each course and carry out an analysis of the course coverage and mechanisms used to assess the students.
- Before the sessional examinations an internal committee reviews the question paper to assess whether the questions are aligned with the course learning outcomes.
- After the different internal examinations the students are given feedback through Assessment Feedback Form. The graduate attributes of the course are mapped through this process.

47. ***Highlight the participation of students and faculty in extension activities***

These programmes are primarily carried out to enable the students to increase the scope of social justice, ensure that they contribute to the creation of a better society through community engagement and increase the community access to legal service. This also inculcates a spirit of Public Interest Lawyering.

The Institute is associated with Extension and Institute Social Responsibility activities, since its inception on August 18, 2007. The Institute has established a Legal Aid Clinic on March 09, 2009. Since then, through the clinic, students and faculty members are giving legal counseling to all the people approaching the Institute. In addition to client counseling the Institute also organized many programmes on legal awareness and legal literacy.

A need for expanding the activities outside the university was felt and hence in the year 2011, the Institute started a first of its kind, Permanent Legal Aid Clinic at Sabarmati Central Jail. Student teams along with a faculty coordinator visit the Clinic every week and counsel the inmates. As of June 2013, the clinic has counselled 1363 under-trial prisoners and assisted 253 indigent persons in getting advocates through the Gujarat Legal Service authority.

In addition to the initiative for legal aid, legal literacy and awareness, the institute has taken up social responsibility to help the society by donating blood, planting trees and helping needy children by providing bags, books, and uniforms in association with different NGOs.

An initiative was carried out in the village of Keharana in Surendranagar. Through the initiatives carried out by the students and faculty members, the village was

declared 'Litigation Free'. The Institute also has planned to file a Public Interest Litigation in the interest of children, on the implementation of the Juvenile Justice (Care and Protection of children) Act, 2000.

Extension & Institute Social Responsibility activity focuses on the following areas:-

Legal Aid Clinic:

- Legal Aid and Legal Literacy
- Legal Awareness
- Para-legal Aid Services
- Consultancy Services

Legal Aid Clinic, Sabarmati Jail:

- Counselling the prisoners
- Assist in getting advocates
- Assisting prisoners through government schemes, etc.

Community Services:

- Helping Human life – through
 - ✓ Accessing of various sources
 - ✓ Environmental Sustainability
- Awakening society on the issues through Legal Awareness
- Approach to make litigation free villages, adopting alternative dispute resolution techniques

48. ***Give details of “beyond syllabus scholarly activities” of the department***

- Contribution to Centre for Continuing Education
- Students Conference on International Law
- Connaissance – A National Platform for Debate among students
- E Portal (legaltrigger.com)
- International Moot Court Competition
- Axiom - Student Magazine
- Special Expert Lectures
- Research Centre Initiatives and Publication of Scholarly Journals
- Field Visits
- Student Research Publication
- Trigger Times – Legal News
- Legislative Drafting Workshop
- Public Interest Litigation Drafting Workshop
- Mediation Training Workshop
- Documentary on Human Rights
- Moot Court
- Mock Trials
- Participation and paper presentation in national and international seminars/conferences
- Client Counselling
- Parliamentary Debate

49. ***State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.***

The Society of Law Firms has awarded the Institute with 'Institute of Excellence' award.

50. ***Briefly highlight the contributions of the department in generating new knowledge, basic or applied.***

New knowledge generated through the following initiatives:

- Research Publications – the Institute has one flagship journal (Nirma University Law Journal) which is published twice a year. There are three other journals of the institute which is published by the Research Centres, namely Centre for Corporate Law, Law and Governance and Social Justice. Journals of research centres are published annually.
- Knowledge is also generated through research and consultancy project carried out for Governmental agencies.
- Number of Conferences, seminars, symposium and workshops that are organized also adds to knowledge creation and dissemination.

51. ***Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.***

Major Strengths:

1. Rich Academic Structure
2. World Class Library Resources
3. Structured Internship Programme
4. State of the Art Infrastructure

Major Weaknesses:

1. Lack of Senior Faculty due to dearth of experienced faculty in legal education
2. Difficulty in faculty retention because of huge demand-supply gap
3. Non-residential campus
4. Slow progress in getting government grants

Major Opportunities:

1. Proximity to High Court
2. Strong brand image
3. Diverse student and faculty base
4. Strong institute industry interface
5. Strong extension initiatives

Major Challenges:

1. Attracting foreign students
2. Limitation of being one of the constituent of private university
3. Increase in the number of National Law Universities
4. Recruitment of competent faculty
5. Research Publication

52. *Future plans of the department*

- To be the Law school of choice for diverse, talented and dedicated law students
- Clinical Pedagogy aiming at orienting students towards Justice Education
- Enhance Institute's facilities and infrastructure to meet the demand of legal educational environment
- Advancement of Law through strong research based initiative
- Increase Institute's visibility in legal circles and create its unique identity.

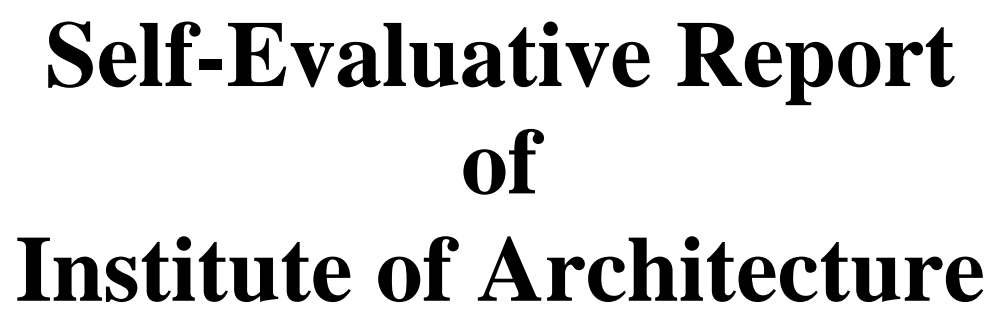
ANNEXURE – I
Faculty Profile (Institute of Law)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. / M. Phil. students guided
1	Purvi Pokhariyal	Ph.D., LL.M.	Professor	Constitutional Law	15	02
2	Nirbhaya Indrayan	Ph.D.	Adjunct Professor	Business Law	39	--
3	Tarkesh Molia	Ph.D., LL.M.	Associate Professor	Constitutional Law and Human Rights	11	--
4	Krishnapal Malik	Ph.D., LL.M.	Associate Professor	Criminal Law and Labor Law	10	01
5	Kiran Gardner	Ph.D.	Associate Professor	Criminal Law and Constitutional Law	30	--
6	Shalini S.	Ph.D.	Assistant Professor	Change Management	14	--
7	Pranav Saraswat	Ph.D., M.B.A., M.Com.	Assistant Professor	Accounting and Finance	09	--
8	Madhuri Parikh	Ph.D., LL.M., M.A.	Assistant Professor	Environment Law	07	--
9	Harmik Vaishnav	Ph.D., M.A.	Assistant Professor	English, Communication, Literature	07	--

10	Shreekant Iyengar	Ph.D.	Assistant Professor	Economics	06	--
11	Nitesh Choudhary	M.A.	Assistant Professor	Liberalism	05	--
12	Ravi Saxena	M.A.	Assistant Professor	Political Science	08	--
13	Anand Kumar Shinde	LL.M.	Assistant Professor	Business and Trade Law	04	--
14	N. Bangkim Singh	Ph.D., M.A.	Assistant Professor	Gender, Development and Sociology of Law	05	--
15	Rohit Moonka	LL.M.	Assistant Professor	IPR, ADR	05	--
16	Rejitha Nair	LL.M., B.A.,LL.B.	Assistant Professor	Human Rights and IHL	03	--
17	Arun Prasad	MBA, PGDHRM, M.A.	Assistant Professor	Economics, Management, HR	16	--
18	Silky Mukherjee	LL.M.	Assistant Professor	IPR, Competition Law, Constitution Law	06	--
19	Rachna Chaudhary	Ph.D.	Assistant Professor	Mercantile Law	04	--
20	U. Varadharajan	LL.M.	Assistant Professor	Criminal Law and Human Rights	03	--

21	Bhumika Nanda	LL.M.	Assistant Professor	Human Rights Law and International Law	02	--
22	Yogesh Dharanghutti	LL.M.	Assistant Professor	Constitutional Law, Business Law	01	--
23	Owais Khan	LL.M.	Assistant Professor	International Trade and Business Law	01	--
24	Renjith Thomas	LL.M.	Assistant Professor	Criminal Law	04	--
25	Victor Nayak	LL.M.	Assistant Professor	Business Law, Company Law	02	--
26	Niteesh Kumar Upadhyay	LL.M.	Assistant Professor	Legal Research, Refugee Law	02	--
27	Tejas Modi	M.Com.	Assistant Professor	Accountancy	07	--
28	Suman Yadav	LL.M.	Assistant Professor	Criminal Law	03	--
29	Anvesha Pal	LL.M.,	Assistant Professor	Corporate Law, IPR, Competition Law	--	--
30	Krishna Bipin Mehta	LL.M., B.Com.	Assistant Professor	IPR	03	--
31	Yamini Prabha	LL.M.	Assistant Professor	IPR	--	--

32	Amit Kumar Kashyap	M.A, MBA, LL.M.	Assistant Professor	Financial Laws	05	--
33	Nanda Pardhey	LL.M.	Assistant Professor	Constitutional Law	03	--
34	Shailja Tripathi	LL.M.	Assistant Professor	Business Law	03	--
35	Raunaq Bagade	LL.M.	Assistant Professor	Constitutional Law	--	--
36	Shalini Bahuguna	LL.M.	Assistant Professor	Constitutional Law	04	--
37	Nadeem Khan	LL.M.	Assistant Professor	International Law	07	--
38	Jahirul Islam	LL.M.	Assistant Professor	Labor Law and Business Law	--	--
39	Shruti Kakkar	LL.M., M.Com.	Assistant Professor	International Trade Law & Taxation Law	2.6	--
40	Ram Niwas Sharma	Ph.D.	Assistant Professor	Contract Law and Maritime Law	13	--



**Self-Evaluative Report
of
Institute of Architecture**

Self-Evaluative Report of Institute of Architecture

(Assessment Period: August 01, 2014 to February 28, 2015)

The Institute of Architecture, Nirma University was set up in August 2014 and therefore certain activities have been recently initiated; hence the nature of the information is limited.

1. **Name of the Institute:**
Institute of Architecture
2. **Year of establishment:**
2014
3. **Is the institute part of a School/Faculty of the university?**
Yes, The institute is a constituent institution of Nirma University.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**
Under Graduate Programme:
B.Arch.
5. **Interdisciplinary programmes and departments/institutes involved:**
Yet to Commence
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
Yet to Commence
7. **Details of programmes discontinued, if any, with reasons**
Not Applicable
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**
Semester System
9. **Participation of the department in the courses offered by other department:**
Yet to Commence
10. **Number of teaching posts sanctioned, filled and actual (Professors / Associate Professors / Asst. Professors / others)**

Name of the Post	Sanctioned Post	Filled Post	Actual (including CAS & MPS)
Professor	02	01	01
Associate Professor	01	01	01
Assistant Professor	03	02	02
Visiting Faculty	03	03	03

Additional four (04) new faculty members are issued appointment orders recently.

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Currently, the institute has 04 faculty members, out of which 03 faculty members have industrial experience.

The details can be found in Annexure–I, attached at the end of the report.

12. **List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors:**

NIL

13. **Percentage of classes taken by temporary faculty – programme-wise information:**

NIL

14. **Programme-wise Student Teacher Ratio:**

Name of the Programme	Total No. of Students Enrolled	Total No. of Teachers	Student Teacher Ratio
B.Arch.	40	04	1:10

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled**

	Sanctioned Post	Filled Post
Number of Technical Staff	02	01
Number of Administrative Staff	01	00

16. **Research thrust areas as recognized by major funding agencies:**

Yet to Commence

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

NIL

18. **Inter-institutional collaborative projects and associated grants received:**

NIL

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

NIL

20. **Research facility/Centre with (a) state recognition (b) national recognition (c) international recognition:**

NIL

21. **Special research laboratories sponsored by / created by industry or corporate bodies:**

NIL

22. **Publications:**

- Total Number of Publications: 18
- International Research Publications 08
- National Research Publications 08
- Average Publication per Faculty Per Year : 4.25
- Number of Books/ Book Chapters Published : 01

The details will be provided to the peer team at the time of visit as Annexure – II, III.

23. **Details of patents and income generated:**

Yet to Commence

24. **Areas of consultancy and income generated:****List of Areas of Consultancy:**

Sr. No.	Project Coordinator	Area of Consultancy	Agency	Income Generated
1	Prof. Utpal Sharma	Coastal Zone Management - Disaster Risk Reduction framework for Vietnam	Ministry of Natural Resources and Environment, Govt. of Vietnam and Asian Disaster Preparedness Centre, Bangkok	USD 6000.00
2		Tourism Development Plan for Jassore Hill (Gujarat)	Gujarat Tourism Development Corporation	₹ 15,00,000/-
3	Projects related to Research & Design in Architecture			
4	City Planning and Urban Design			

Income Generated from Consultancy:

- USD 6000+₹15 Lacs
- Agreements of other consultancy assignments are presently under consideration/process

25. **Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:**

Name of the Faculty	Name of Laboratories / Institutions / Industries With Place	National / International
Prof. Utpal Sharma	Solar Energy Research Institute of Singapore (SERIS), Singapore	International

Singapore Business Federation (SBF), Singapore	
National University of Singapore (NUS), Singapore	
Institute of South Asian Studies (ISAS), Singapore	
Nanyang Technological University (NTU), Singapore	
Singapore LNG Corporation Private Ltd, Singapore	
Singapore BP, Singapore	
Swire Institute of Marine Science (SWIMS), Hong Kong	
Hong Kong infrastructure team (TOK, MVA and Globex Biotech), Hong Kong	
CLP Power, Hong Kong	
Shanghai Waste Management Bureau (SWMB), Shanghai	
Shanghai New Energy Association (SNEA), Shanghai	
China Institutes of Contemporary International Relations (CICIR), Beijing, Japan	
China National Building Material Co., Beijing, Japan	
University of Moratuwa, Sri Lanka	
IIT, Roorkee	
VNIT, Nagpur	

26. **Faculty serving in National committees b) International committees c) Editorial Boards d) any other**

Name of the Faculty	Role of Faculty Member	Name of National / International Committee or Editorial Board of a Journal	National / International
Prof. Utpal Sharma	Executive Committee Member as Asian Representative	Global Planning Educational Network (GPEAN)	International
	Member	UN-Habitat University Network	
	Executive Member	Task Force on Affordable Housing, Ministry of Urban Development and Poverty Alleviation, Govt. of India	National
	Member	High Power Committee on Special Investment Region (SIR), Govt. of Gujarat	
	Member	High Power Committee to suggest remedial measures on flood problems in Guwahati, Govt. of Assam	
	Delegation Member	Committee for Vibrant Gujarat 2015, Govt. of Gujarat	
Prof. Sharad Panchal	Member	Advisory Committee of CoA - National Institute of Advanced Studies in Architecture (NIASA)	National

27. ***Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):***

Faculty Recharging Strategies:

Considering the importance of Faculty and Staff development activities, the University has set-up its own system of 'Faculty Development' under the supervision of a core committee headed by the Director General. A senior professor is given charge of organizing and monitoring staff development activities.

The Faculty Development programmes are arranged in four different categories, namely

- i) Induction Training Programme of 4 weeks for newly recruited faculty members before they go for class-room teaching
- ii) Orientation Programme of 2 weeks for teachers having 2-5 years of teaching experience
- iii) Refresher Course of 2 weeks
- iv) Research Orientation of 2 weeks

Summary of Faculty Recharging Programmes:

Two faculty members of the Institute have attended Faculty Recharging Programmes. The details are as follows:

1. Prof. Jaydatt Vaishnav (Two weeks Faculty Orientation Programme, organized by Nirma University)
2. Prof. Supriya G. Pal (One week Research Orientation Programme organized by Nirma University)

28. ***Student project:***

Percentage of students who have done in-house projects including inter-departmental projects:

100 %

Percentage of students doing projects in collaboration with other universities industry / institute:

NIL

29. ***Awards / recognitions received at the national and international level by Faculty and Students***

Two International and one National awards received by the Director of the Institute.

The details will be provided to the peer team at the time of visit as Annexure– IV.

30. ***Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any***

NIL

31. **Code of ethics for research followed by the departments:**

The Institute follows the Code of Ethics for Research as prescribed by the University. The copy of the same is attached as Annexure– A.

32. **Student profile programme-wise :**

Name of the Programme	Applications Received	Admitted		Pass Percentage	
		Male	Female	Male	Female
B. Arch. (Year 2014)	*628	20	20	NA	NA

* For B. Arch. programmes, for 50 % seats, the admissions are carried out by the Admission Committee for Professional Courses (ACPC) of Gujarat State. The institute gives admission for the remaining 50 % seats. Thus, the applications are invited for 50% of seats (i.e. 20 seats).

33. **Diversity of Students (For year 2014)**

Name of the Programme	% of Students from the same University/ Gujarat Board	% of Students from other Boards/ Universities within the State	% of Students from Boards/ Universities outside the State	% of Students from other Countries
B.Arch.*	67.5%	17.5%	12.5%	2.5%

*Admissions for B. Arch. programme are carried out by the Admission Committee for Professional Courses (ACPC) of Gujarat State and 50% seats of the B. Arch. programme are filled by the ACPC. As per the regulations of the ACPC, the students who have cleared exams from Gujarat State and other states of India are eligible for the admission.

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Not applicable as the first batch of B. Arch. Programme commenced in the year 2014.

35. **Student Progression**

Not applicable as the first batch of B. Arch. Programme commenced in the year 2014.

36. **Diversity of Staff:**

Percentage of Faculty Member who are Graduates	
From the same University	--
From other Universities within the State	75 %
From Universities from other States	--
From Universities outside the Country	25 %

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Not Applicable

38. **Present details of departmental infrastructural facilities with regard to:****a) Library:**

Library Area: 180.29 sq.mt.

Total number of book (volumes): 407

Total number of e-journals: 45

Institutional Repository is maintained, using D-Space open source software.

b) Internet Facilities for Staff and Students:

Internet-256 Mbps

c) Total Number of Class Rooms:

01

d) Class Rooms with ICT Facilities:

01

e) Students' Laboratories:

01(Design Studio)

f) Research Laboratories:

01(Workshop)

g) Seminar Hall / Auditorium:

02 (1 Seminar Hall + 1 Auditorium)

h) Conference Room:

01 with seating capacity of 30

39. **List of Doctoral, Post-doctoral Students and Research Associates:**

Not Applicable

40. **Number of post graduate and Ph.D. students getting financial assistance from the university:**

Not Applicable

41. ***Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:***

Architecture is an upcoming profession in the country. Over the last few years, there has been a proliferation of architecture colleges in India. There is a demand for quality education with excellent infrastructure which the new programme at Nirma aims to fulfill. For this purpose following steps were taken:

Methodology:

- Due consultation was done with prominent Academicians of architectural and design studies, emphasized the need for high quality educational infrastructure and manpower for the same.
- Visited various architectural institutes across the country for a detailed study to emulate the most suitable learning environment, pedagogy, etc.
- Formed Joint Board of Studies to devise the curriculum and design pedagogy.
- Adopted the best suitable model curriculum suggested by the Council of Architecture (CoA) and AICTE.

42. ***Does the department obtain feedback from***
a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Collected the feedback and it is under process of analysis.

- b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?***

Collected the feedback and it is under process of analysis.

- c) alumni and employers on the programmes offered and how does the department utilize the feedback?***

Not Applicable

43. ***List the distinguished alumni of the institute***

Not applicable as the first batch of B.Arch. Programme commenced in the year 2014.

44. ***Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:***

One expert lecture by international speaker and twelve expert lectures by national speakers were arranged for the students.

The details will be provided to the peer team at the time of visit as Annexure– V.

45. ***List the teaching methods adopted by the faculty for different programmes:***

- Chalk and Talk Method
- Design Studio based
- Workshop based
- Model Making based
- Field Visit based

- Documentation of Village Settlement
- Making of Documentary Films

46. ***How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?***

The institute has adopted philosophy of Outcome Based Education for its programme. The Programme Learning Outcomes (PLOs) are aligned with the Vision and the Mission of the University. The PLOs focus on three categories, i.e., development of professional knowledge and skills, inculcation of employability skills and development of character and social responsibility.

Besides the core courses in a curriculum, numerous supplementary and enrichment courses are introduced in the programme to ensure the all-round development of the students.

Apart from regular classroom interactions supported by practical, students are supported to conduct projects, seminars, while subject specialized guest lecturers from personalities of the Industry offer advanced and quality training / classes/ workshops. These special lectures are combined with presentations, case studies, interactions for better outcomes. There is extensive use of ICT also which facilitates the achievement of the intended learning outcomes.

The curriculum focuses on gaining knowledge both practical and conceptual. Assessment of students is done on a continuous basis throughout the course both by written and oral examinations. Quality of question papers will be regularly reviewed by departmental committee and experts of Area Committee.

Course outcomes will be assessed after completion of each course in semester.

47. ***Highlight the participation of students and faculty in extension activities***

Studied a village around Ahmedabad and provided educational material to the village primary school.

48. ***Give details of “beyond syllabus scholarly activities” of the department***

- Visit to various Exhibitions of Architectural Works
- Visit to various Buildings, Places having architectural importance
- Participated in Seminar, Workshop and Quiz, Wall Painting, Photography, Movie Making, etc.

49. ***State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.***

Not applicable as the institute has not completed one cycle of the course span of five year.

50. ***Briefly highlight the contributions of the department in generating new knowledge, basic or applied.***

- Related Study Programme (RSP) has been introduced as part of curriculum. The outcome of RSP will generate data base of various settlements (village, town, city, metro city) in terms of drawings, images, etc. through systematic

documentation.

- Architectural Design Studio-I is formulated to focus on ‘Children and Spaces’, which will create awareness about children need and help formulate design guidelines for spaces related to children.
- Initiated the small and medium research programmes
- Initiation of Doctoral programme (Ph. D.) is under process

51. ***Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.***

Major Strengths:

1. Innovative Curriculum
2. State of the Art Infrastructure
3. Experienced Faculty and Effective Leadership
4. Availability of Highly Experienced Visiting Faculty
5. Co-operative University Structure Facilitating Academic Excellence

Major Opportunities:

1. To prepare our students to become caring, ethical and sensible professionals
2. To establish a Research Center on Architecture, Planning, etc.
3. To establish Architectural Design Cell, to carryout design and consultancy
4. To start exchange programmes with national and international institutions in terms of Students, Faculty exchange and joint studies.
5. To start joint research and collaboration with other Institutes of Nirma University.

Major Challenges:

1. To establish as premier Institute in the field of built environment in the country
2. To provide an ideal learning environment for students in creative filed
3. To prepare competitive professional in the field of Architecture

52. ***Future plans of the department***

- To start the PG Programme in ‘Urban Planning’ in 2015-16
- Increase in Intake of existing B.Arch. Programme in 2015-16
- Proposed Doctoral Programme in the field of Architecture, Planning and Design

ANNEXURE – I
Faculty Profile (Institute of Architecture)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4 years.
1	Utpal Sharma	M.Tech.	Director	Architecture, Urban and Regional Planning	30	04
2	Sharad Panchal	M.Tech.	Associate Professor	Housing	15	--
3	Jayadatt Vaishnav	M.Plan.	Assistant Professor	Housing	12.5	--
4	Supriya Gautam Pal	M.Arch.	Assistant Professor	Theory and Design	03	--

ANNEXURE-A

Nirma University Code of Ethics for Research (CER)

Preamble

Nirma University promotes research that benefits to the larger section of society and so all Institutes under the University are committed to research focused on people, organisations and industry. To honour the trust placed in researchers by research participants, funding organisations and society, the researchers should at all times act correctly and in ways that respect the rights and dignity of the participants, organisations and industry. In this regard all faculty members, researchers and students undertaking research are bound by code of research ethics.

Object

Nirma University lays down Code of Ethics for Research,

To provide the ethical framework within which the ethical review process will operate across campus

To promote exemplary ethical standards in research and scholarship

Scope

This document lays down code of research ethics for all faculty members, researchers and students undertaking research and operationally controlled by the Nirma University. It covers all the activities through which research information and data are gathered, processed and disseminated including surveys and interviews and the reporting of research findings.

The following are ethical principles that this codes address*:

1. Academic Honesty

Be honest in all scientific communications. Honestly report data, results, methods and procedures, and publication status. Do not fabricate, falsify, or misrepresent data. Do not deceive colleagues, granting agencies, or the public.

2. Integrity

Keep your promises and agreements; act with sincerity; strive for consistency of thought and action.

3. Carefulness

Avoid careless errors and negligence; carefully and critically examine your work and the work of peers. Keep good records of research activities, such as data collection, research design, and correspondence with agencies or journals.

4. Respect for Intellectual Property

Honour patents, copyrights, and other forms of intellectual property. Do not use unpublished data, methods, or results without permission. Give credit where credit is due. Give proper acknowledgement or credit for all contributions to research. Never plagiarize.

5. Confidentiality

Protect confidential communications, such as papers or grants submitted for publication, personnel records, trade or military secrets, and patient records.

6. Social Responsibility

Strive to promote social good and prevent or mitigate social harms through research, public education, and advocacy.

7. Competence

Maintain and improve professional competence and expertise through lifelong education and learning; take steps to promote competence in science as a whole.

8. Legality

Know and obey governmental policies, relevant laws and institutional rules and regulations.

9. Animal Care

Show proper respect and care for animals when using them in research. Do not conduct unnecessary or poorly designed animal experiments.

10. Human Subjects Protection

When conducting research on human subjects, minimize harms and risks and maximize benefits; respect human dignity, privacy, and autonomy; take special precautions with vulnerable populations; and strive to distribute the benefits and burdens of research fairly.

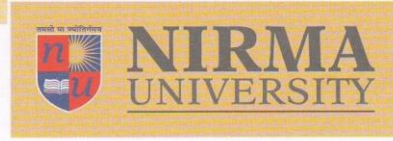
* Shamoo A and Resnik D. 2009. *Responsible Conduct of Research, 2nd ed.* (New York: Oxford University Press).



**Declaration
from the
Head of the University**

Declaration by the Head of the Institution

Dr. Anup K. Singh
Director General



Certificate

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the University after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the peer team visit.


Anup K. Singh, Ph.D.

Place: Ahmedabad

Date: April 15, 2015

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Statement of Compliance (State Private Universities)

Dr. Anup K. Singh
Director General



This is to certify that Nirma University, Ahmedabad has complied with all the provisions of the following Regulations governing it:

- * UGC Regulations on Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measure for the Maintenance of Standards in Higher Education 2010 and further amendments, if any, notified by the UGC.
- * UGC Regulation on Minimum Standards and Procedure for the Award of M.Phil./Ph.D. Degree, Regulation 2009 and further amendments, if any, notified by the UGC.

Any false or misleading information provided by the institution, will be viewed seriously by NAAC and the accreditation given is liable to be withdrawn.


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