

**Annual Quality Assurance Report  
(AQAR)**

**Submitted by**

**CharutarVidyamandal's**



**Institute of Science & Technology For Advanced Studies & Research  
(ISTAR)**

**(Affiliated to Sardar Patel University & Gujarat Technological University)**

**Vallabh Vidyanagar-388120, Gujarat**

[www.istar.edu.in](http://www.istar.edu.in)

**Email :istarcvmvvn@yahoo.co.uk**

**Principal :Dr.P.M.Udani**

**Co-ordinator :Dr.Merlin Thomas**

**Phone Number: 02692- 234955**

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**INSTITUTE OF SCIENCE & TECHNOLOGY  
FOR ADVANCED STUDIES & RESEARCH**

(MANAGED BY CHARUTAR VIDYAMANDAL)

**Accredited 'A' Grade by NAAC & Knowledge Consortium of Gujarat**



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18/07/2016

To

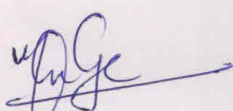
The Director  
NAAC,  
P.O.Box :1075,Nagarbhavi  
Bangalore-560072  
Karnataka


Sub : Submission of AQAR  
Ref : Track ID –GJCOGN16891

Dear sir,

We herewith submit the soft copy of AQAR for the academic year 2015-16.

Thanking You,  
Yours sincerely

  
Dr. Merlin Thomas  
Co-ordinator, IQAC

  
Dr. P.M. Udani  
Principal

## Part – A

**AQAR for the year**

2015-16

### **1. Details of the Institution**

1.1 Name of the Institution

Institute of Science & Technology for  
Advanced Studies & Research (ISTAR)

1.2 Address Line 1

Sardar Patel Centre for Science &  
Technology

Address Line 2

Mota Bazaar

City/Town

Vallabh Vidyanagar

State

Gujarat

Pin Code

388120

Institution e-mail address

istarcvmvvn@yahoo.co.uk

Contact Nos.

02692-234955 , 02692-234368

Name of the Head of the Institution:

Dr.P.M.Udani

Tel. No. with STD Code:

O : +91-2692-234368  
R: + 91-2692-233952

Mobile:

+91-9825605114

Name of the IQAC Co-ordinator:

Dr. Merlin Thomas

Mobile:

+91-9998392944

IQAC e-mail address:

director@istaradm.co.in

1.3 NAAC Track ID(For ex. MHCOGN 18879)

GJCOGN16891

OR

1.4 NAAC Executive Committee No. & Date:

EC (SC)/03/AQA/04 dated 24-09-2014

(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

1.5 Website address:

www.istar.edu.in

Web-link of the AQAR:

<http://istar.edu.in/doc/AQAR2015-16.pdf>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.1	2014	5 years
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

03/04/2012

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

Submitting first time after NAAC Accreditation

### 1.9 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

### 1.10 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (PhysEdu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

. MCA

### 1.11 Name of the Affiliating University (*for the Colleges*)

Sardar Patel University  
Gujarat Technological University

### 1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Nil

Autonomy by State/Central Govt. / University

Nil

University with Potential for Excellence	Nil	UGC-CPE	
DST Star Scheme	Nil	UGC-CE	Nil
UGC-Special Assistance Programme	Nil	DST-FIST	Nil
UGC-Innovative PG programmes	Nil	Any other ( <i>Specify</i> )	Nil
UGC-COP Programmes	Nil		

## **2. IQAC Composition and Activities**

2.1 No. of Teachers	6		
2.2 No. of Administrative/Technical staff	1		
2.3 No. of students	4		
2.4 No. of Management representatives	1		
2.5 No. of Alumni	1		
2.6 No. of any other stakeholder and community representatives	-----		
2.7 No. of Employers/ Industrialists	2		
2.8 No. of other External Experts	2		
2.9 Total No. of members	17		
2.10 No. of IQAC meetings held			
2.11 No. of meetings with various stakeholders:	No.	7	Faculty 4
	Non-Teaching Staff	1	Alumni 1
	Students		Others One :With parents during open house
2.12 Has IQAC received any funding from UGC during the year?	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>

If yes, mention the amount

### 2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

### 2.14 Significant Activities and contributions made by IQAC

- Academic Audit of staff members using feedback from students
- Encouraging departments to arrange more seminars/conferences etc.
- Encouraging staff to prepare more research proposals
- Effort for improving academic standards
- Preparation of AISHE Database
- Orientation programme for freshers
- Monthly course completion report
- Strengthening research work
- Strengthening laboratory facilities

### 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year .

Plan of Action	Achievements
Orientation for freshers	Orientation for freshers was done by Head of the Institution&IQAC Co-ordinator
Academic Audit of teachers	Implemented
Common academic calendar for science & interdisciplinary courses in S.P University	Common academic calendar implemented for all science & interdisciplinary courses in S.P University

Continuous evaluation of students using Quiz, test ,seminar etc.	Implemented
Consultancy and sponsored research	Prepared policy document for GNFC Seven Seas ,Delhi & Pidilite, Mumbai sponsored research work started
Strengthening research work	22 students are at present pursuing Ph.D and one student doing his post-doctoral research
Initiatives for increasing students strength	Admission counselling started from the month of October ,2015.Institutions within and outside the state were visited by the teaching faculty  Conducted courses for UG students for improving student strength
Emphasis on short term certificate courses	Many certificate courses started  FDP in association with IIRS ( ISRO) and National Instruments through web seminar
Encouraging departments to conduct seminars & workshops	10 seminars/workshops arranged by different departments which includes one winter school
Encouraging staff for research activities	Submitted research proposals to various funding agencies
Improving teaching learning process	Teaching learning process improved through regular web seminars
Encouraging students for participation in sports & cultural events	Many students participated in various cultural and sports activities organized by the Institute and University
Strengthening lab facilities	Purchased hardware and soft wares for GIS course



2.16 Whether the AQAR was placed in statutory body      Yes  No

Management       Syndicate       Any other body

Provide the details of the action taken

The AQAR was placed before IQAC of the Institution. It was reviewed by the committee and suggestions made were incorporated and subsequently Management approval was taken

## Criterion – I

### 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	7		All programmes are self-financing	
PG	10			
UG				
PG Diploma	1			
Advanced Diploma				
Diploma				
Certificate	2			
Others				
<b>Total</b>	18			
Interdisciplinary	4		All programmes are self-financing	
Innovative				

#### 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

#### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	11

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
*(On all aspects)*

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

*\*Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

All the courses are regularly updated according to the rules of the affiliated university. The staff members who are members of board of studies play vital role in the revision of syllabus.

Syllabus of Environmental Science & Technology was updated giving more focus on restoration ecology, remote sensing and GIS.

Syllabus of Industrial Chemistry was updated giving more focus on process development and process safety management

Master of Industrial hygiene and safety department upgraded the syllabus giving importance to SAMA/IS coding and performance cycle model

Packaging, printing inks and corrosion technology have been incorporated in the syllabus of M.Sc. Surface Coating Technology.

The latest amendments in various acts relating to plant & machinery and real estate valuation have been incorporated in the syllabus for Master of Valuation.

Syllabus of Polymer Science & Technology was updated giving more focus on resins & its adhesive application and medical & high strength applications of polymers

Satcom Instrumentation is added to the syllabus of M.Sc. Instrumentation & Control

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Two New Department Established for conducting following new courses from academic year 2016-17.

- M.Sc.in Mobile Technology &Applications
- M.Sc. in Geoinformatics

Laboratories for above courses are established and training given to concerned Faculty members at IIRS (ISRO) and during in-house Faculty Development Program.

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Director
	26	20	01	04	01

2.2 No. of permanent faculty with Ph.D. 20

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		AdhyapakSahai	
	R	V	R	V	R	V	R	V	R	V
	02	05	01	00	00	01	--	---	04	04

2.4 No. of Guest and Visiting faculty and Temporary faculty Visiting :43 Temporary:06

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	04	24	13
Presented papers	02	14	02
Resource Persons	01	04	07

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- WIFI Campus for faculty & students to make use of internet for study and research
- Use of MOODLE e-learning platform
- Use of multimedia projectors
- Encouragement for participation in various state/national level competitions
- Web Seminars
- Remedial class and crash course for weak learners
- NPTEL video lectures
- In-plant / Industrial training

2.7 Total No. of actual teaching days during this academic year 210

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions) System of S.P.U and G.T.U is followed

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

13- Board of Study

03- Senate

2.10 Average percentage of attendance of students

80

2.11 Course/Programme wise distribution of pass percentage:

Title of programme	Total No. of Students	Division		
		Distinction %	First Class %	Pass %
Industrial Chemistry	70	32.85	48.57	100
Instrumentation	10	20	40	40
Polymer Science & Technology	23	56.52	34.78	100
Organic Chemistry	14	7.14	92.85	100
Information Technology	40	100	00	100
Surface Coating Technology	36	33.33	27.77	100
Environmental Science & Technology	39	28	56	100
Master of Industrial Hygiene	15	46.66	6.66	100
Master of Valuation (Real Estate)	27	25	55	100
Master of Valuation ( Plant &	04	----	25	100
MCA	31	38.7	29	100

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- The co-ordinator of IQAC is invited whenever Principal arranges meeting of all HODs for providing suggestions regarding quality improvement in teaching-learning

- The IQAC team regularly contacts teachers of all departments and carry out analysis of various academic activities and action plans are prepared accordingly.
- Feed back is taken from the students twice a year and accordingly counseling is arranged for concerned teaching staff if required.
- Continuous evaluation through Assignments, Unit tests ,Seminars etc.

#### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	
UGC – Faculty Improvement Programme	
HRD programmes	
Orientation programmes	
Faculty exchange programme	01
Staff training conducted by the university	
Staff training conducted by other institutions	2 (IIRS-ISRO)
Summer / Winter schools, Workshops, etc.	9
Others	

#### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	16	03	---	---
Technical Staff	27	05		-----

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

IQAC team had many formal and informal meetings with the research co-ordinator of the institute and valuable inputs & suggestions were given for encouraging staff to apply for more research projects from various funding agencies

During the meetings conducted by IQAC with all teaching staff, special emphasis has been given on promoting research culture in the institute

All HoDs are encouraged to conduct seminars/ workshops/ conferences in the institute. They are also encouraged to enrol more Ph.D students

Industry sponsored research work and consultancy is given higher priority and good results achieved.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		1		1
Outlay in Rs. Lakhs		12,31,000		20,00000

#### 3.3 Details regarding minor projects

	Completed	On-going	Sanctioned	Submitted
Number		5		
Outlay in Rs. Lakhs		70,000		

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	23	09	
Non-Peer Review Journals			
e-Journals			
Conference proceedings	05		

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	3	UGC	12,30,000	7,80,000
Minor Projects	3	GUJCOST	2,30,000	2,30,000
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects <i>(other than compulsory by the University)</i>	1	GUJCOST	70,000	70,000
Any other(Specify)				
Total			15,30,000	10,80,000

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges  
Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy



3.11 No. of conferences /workshops organized by the Institution

Sr. No	Name of the seminar & Date	Sponsoring Agency	Level
1	International Industrial Hygiene Conference -2016, Bengaluru	AIHA, CIHA, ABIH, ISS, IHS	International
2	National Symposium on Renewable Energy, September 3,2015	CVM	National
3	A Workshop On Best Practices In Quality Control Department, 23 <sup>rd</sup> February, 2016	CVM	State
4	A Workshop On Current Trends In Chemical Science On 13 <sup>th</sup> and 14 <sup>th</sup> March 2016	CVM and Government Science College, Gandhinagar	State
5	Microcontroller based System Design	CVM	Local
6	Android Studio(17 <sup>th</sup> October , 2015)	CVM	Local
7	Technokhoj-2016(19 <sup>th</sup> -20 <sup>th</sup> feb,2016)	CVM	State
8	One Day Workshop on Wastewater Treatment & Technology, on 10 <sup>th</sup> September, 2015.	GEC Project	State
9	One day workshop on “Environmental Science & Technology” for Undergraduate students ,13 <sup>th</sup> Feb,2016	CVM	Local
10	One day workshop on “Environmental Science & Technology” for Undergraduate students for Forestry Students,18 <sup>th</sup> March,2016	GEC Project	State
11	Winter school on Geospatial Technologies,Nov-Dec 2015	NRDMS-DST	National

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From funding agency  From Management of University/College

Total

Type of Patent	Number	
National	Applied	Nil
	Granted	Nil

3.16 No. of patents received this year

International	Applied	Nil
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

3.17 No. of research awards/ recognitions received by faculty and research fellows  
Of the institute in the year

Total	International	National	State	University	Dist	College

3.18 No. of faculty from the Institution  
who are Ph. D. Guides  
and students registered under them

08
22

3.19 No. of Ph.D. awarded by faculty from the Institution

Nil
-----

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF	<input type="text"/>	SRF	<input type="text"/>	Project Fellows	<input type="text" value="01"/>	Any other	<input type="text"/>
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3.21 No. of students Participated in NSS events:

University level	<input type="text" value="Nil"/>	State level	<input type="text" value="Nil"/>
National level	<input type="text" value="Nil"/>	International level	<input type="text" value="Nil"/>

3.22 No. of students participated in NCC events:

University level	<input type="text" value="Nil"/>	State level	<input type="text" value="Nil"/>
National level	<input type="text" value="Nil"/>	International level	<input type="text" value="Nil"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="Nil"/>	State level	<input type="text" value="Nil"/>
National level	<input type="text" value="Nil"/>	International level	<input type="text" value="Nil"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="Nil"/>	State level	<input type="text" value="Nil"/>
National level	<input type="text" value="Nil"/>	International level	<input type="text" value="Nil"/>

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Sr. No.	Name of activity	Participant/ Beneficiary
1.	Blood Donation Camp	33 Units of blood Collected
2.	Awareness talk on Thalassemia	65
3.	Awareness talk on Aids and HIV	61
4.	Campus cleaning camp	70
5.	Poster making competition on "How to make the town Beautiful"	10

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	4.452 ACRE	Nil		4.452 ACRE
Class rooms	20	Nil	CVM Management	20
Laboratories	22	Nil	CVM Management	22
Seminar Halls	01	Nil	CVM Management	01
Conference Room	02	Nil	CVM Management	02
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.		04	UGC Project  CVM Management  NRDMS	04
Value of the equipment purchased during the year (Rs. in Lakhs)		368725		368725
LCD	14		CVM Management	1,82,294
AC	08		CVM Management	23,500
CCTV Camera	40		CVM Management	40

#### Detailed Information for Laboratory equipment

DEPARTMENT	Equipments	Source of fund	Total in Rs.
Industrial Chemistry	Packed bed distillation column	CVM	<b>1,73,250</b>
Organic Chemistry	Vacuum Pump	CVM	<b>20475</b>
Polymer Science & Technology	Stirrer	CVM	<b>20000</b>

Surface Coating Technology	Heating Mantle and Hotplate, Flash Cup	CVM	25000
Environmental Science & Technology	Rotary Shaker	(UGC Project)	1,30,000
GIS	ENVI + IDL SINGLE Node Software	CVM	196933
	Scientific Surveying Instruments	NRDMS	1,00,000

#### 4.2 Computerization of administration and library

The administration and library activities are already computerized.

SOUL software and Barcoding system are used in library.

Library is fully furnished with reading room, internet, multimedia and reprographic facilities. Also have INFLIBNET & e-journal facility

The process of the institute administration is computerised. All data related to academic, non-academic activities, exam results have been computerized

#### 4.3 Library services:

	Existing		Newly Added		Total	
	No	Vale	No	Value	No	Value
Text Books	10652		87		10739	
Reference Books	811	3986189.00	6	57037.00	817	4043226.00
e- books	0	0	0	0	0	0
Journals	38	2098374.00	37	109228.00	37	2207602.00
e -journals	6000	5000.00	6000	5000.00	6000	5000.00
Digital Database	0	0	0	0	0	0
Cd & Video	0	0	0	0	0	0
Other specify	0	0	0	0	0	0
<b>Reference Books included in text books</b>				<b>e-journals NLIST program</b>		

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	188	98	03	07	01	08	69	02
Added								
Total	188	98	03	07	01	08	69	02

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

- Internet access is available in all computers used for Academic and Administrative work in addition to those in computer and internet labs.
- Wi-Fi facility to access internet is available to all registered staff members and students
- Network operations Centre: NOC of ISTAR manages the web server of 22 colleges and web space of 625 faculty members of various colleges of CVM Management.
- ICT enabled teaching-learning process

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	91581
ii) Campus Infrastructure and facilities	51171
iii) Equipments	21195
iv) Others	31833
<b>Total :</b>	<b>195780</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Student members of the IQAC are encouraged to communicate their views and give suggestions for the enhancement of teaching-learning process.
- IQAC provides information about various Student Support Services available at the institution and from other sources during the orientation programme
- Earn & Learn Scheme for students doing Ph.D.
- Encouraging departments to arrange Industrial Visits, Campus Placement & Project Assignments
- Guidance in publishing student Centric Galaxy Magazine every year
- Encouraging for participation in web seminars
- Encouraging faculty & students for Seminar / conference participation

#### 5.2 Efforts made by the institution for tracking the progression

The institution monitors and ensures the achievements of the learning outcome through analysis of the tests, examination results, seminar/conference participation, industrial visits and the pass percentage. These are discussed in the IQAC meeting and the Board of management meetings. In addition, the opinion and suggestion of students are sought through

- Student Counselling
- Suggestion Box
- Feedback from Students

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	PG Diploma
	595	22	20

#### (b) No. of students outside the state

34

#### (c) No. of international students

Nil

Men	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>No</td> <td>%</td> </tr> <tr> <td>477</td> <td>80.16</td> </tr> </table>	No	%	477	80.16	Women	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>No</td> <td>%</td> </tr> <tr> <td>118</td> <td>19.83</td> </tr> </table>	No	%	118	19.83
No	%										
477	80.16										
No	%										
118	19.83										

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
263	08	10	39	Nil	320	472	16	16	90	01	595

Demand ratio 0.8 Dropout%0

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The personality development & soft skill programme ( GD & PI) are conducted with the help of Career development centre (CDC),Vidyanagar and Globearena (Hyderabad).Guidance is also provided for various competitive examinations

No. of students beneficiaries

All students of the institute

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT   
IAS/IPS etc  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

- The institution has department-wise faculty advisors for student support and Mentoring.
- To improve the communication skill in English, the college conducts Language Laboratory
- Placement Cell arranges campus interviews for placement in various organizations.
- The students are encouraged to exhibit their skills and talents through various co-curricular activities
- Personality development programme conducted for all students in association with Career Development Centre, Vidyanagar
- Relevant activities are conducted time to time under RUSA head.

No. of students benefitted

All the students of the institute

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
63	198	146	41

#### 5.8 Details of gender sensitization programmes

A one day programme on Women Empowerment-2016” on Tuesday, 16<sup>th</sup> Feb 2016 which included expert talk and training on marshal arts

A one day seminar on Health Awareness and Women " on Monday, 2nd March, 2015



## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

### No. of students participated in cultural events

State/ University level  National level  International level

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	12	71000
Financial support from government	44	2288570
Financial support from Industries	11	365308
Financial support from Alumni Association	2	40000
Number of students who received International/ National recognitions	2	700,000

### SCHOLARSHIP FROM GOVERNMENT

Sr.No	Type of scholarship	No. of students benefitted	Amount in Rs.
1	ST less income	11	1036270
2	ST high income	04	352120
3	SC less income	07	733950
4	SC. high income	----	
5	SEBC/OBC	22	166230

### 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

01

5.13 Major grievances of students (if any) redressed: Nil

## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

**Vision:** To add significantly to our enduring civilizational tradition of pioneering excellence in learning, knowledge, enlightenment and self-realization, in a universally relevant context.

**Mission:** We dedicate ourselves to the perpetuation our founders' vision of providing the infrastructure ,facilities, operating conditions and overall environment conducive for the education of young scholars, along with the desired physical, mental and character building inputs; we firmly renew our commitment in providing value added globally relevant education with an emphasis on the techno management domain to ensure that our scholars fruit fully explore their knowledge skills and values in the global economy.

Our college follows the above mentioned vision and mission in letter and spirit. Ours is a secular institution whose focus is on imparting quality education in the field of pure & applied sciences and inters disciplinary courses and creating opportunity for young students to expand their knowledge and skills. Moreover, the faculty is always keen to upgrade themselves and always strive to improve the curriculum to make it relevant to the changing times. The college also gives ample opportunities for the overall development of the students by allowing the students to participate in various sports events, academic meets and cultural events. We do believe that overall development of students is essential besides academics and therefore institute has initiated a personality development program. It is said that future leaders of the nation are born in our educational institutions. To make this happen, students are inducted in central committee and given responsibility to manage and organize various events in the collage. This involvement nurtures future leaders and managers besides building the character.

#### 6.2 Does the Institution has a management Information System

Yes

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

As the institute is affiliated to Sardar Patel University and Gujarat Technological University, the rules of the universities are followed in curriculum development. 12 senior faculty members are in the Board of studies of university and they constantly interact with teachers and students and the suggestions are conveyed to the Board of Studies. Opinions of experts from industry and academia are also taken into consideration during syllabus preparation.

### 6.3.2 Teaching and Learning

- Bilingual teaching is done in the initial days for the freshers taking into consideration the fact that most of the students are from vernacular medium
- ICT facility in teaching for ensuring effective content delivery
- Institute library and departmental library facilities
- Internet access to students
- Use of ISTAR Moodle
- Industrial Visits
- Expert Talks
- Well stacked Library
- Faculty development programme
- Alumni invited regularly for sharing their experiences

### 6.3.3 Examination and Evaluation

- Institute follows the examination patterns specified by the university and involves Assignment, Seminar, Objective Test, Project Work etc.
- Remedial examinations are conducted for weak students

### 6.3.4 Research and Development

- Institute has an active research committee and guidance is provided to faculty aspiring to pursue research
- Research fellows are trained to make presentation before research committee and they are encouraged to participate in Seminar/Conferences etc.
- Post Graduate students and Staff are encouraged for paper presentation in Seminars/Conferences etc.
- Institute representative participates regularly in CVM core research meetings.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- The institute has a library committee which meets regularly, takes stock of the library facilities and take necessary actions for improving the facilities and purchasing of new books,periodicals etc.
- As per the demand from various departments, the infrastructure is improved with the help of financial support from the management.
- Wi-Fi campus with 300 networked computers
- CCTV Surveillance Services

### 6.3.6 Human Resource Management

- Biometric system and Management Information System are implemented
- Internal Promotion
- Faculty appraisal based on Academic Audit
- Involvement of faculty in Co-curricular and Extra-curricular activities
- Duty leave for faculty for participating in Seminars/Conferences etc.

### 6.3.7 Faculty and Staff recruitment

- Recruitment as per norms of Sardar Patel & Gujarat Technological Universities
- Salary as per the norms of Sixth Pay Commission
- Adhoc Faculty recruited as per the requirement
- Experts from Industry invited for delivering special lectures

### 6.3.8 Industry Interaction / Collaboration

Institute has an industry-institute interaction cell which takes care of liaison with various Industries. This has helped in placement of Students and Student Scholarship from Industry.

- Industrial Chemistry department has collaboration with Lupin Ltd. , Cadila Health Care Ltd. and SVNIT, Surat
- Environmental Science & Technology department has collaboration with GUIDE & Missouri University, USA
- MIHS department has collaboration with Cincinnati University, USA
- IT & MCA departments have collaboration with IIRS (ISRO) and Indian Society of Geomatics
- SCT department has collaboration with seven seas paints
- Most of the faculty members are members of various Professional Society/groups.

### 6.3.9 Admission of Students

- Institute has an admission committee which plans the various activities required for publicity of various programmes.
- Institute also has a website which provides all information about the institute and facilities are provided for online registration and queries
- Advertisements are given in regional and national news papers
- Prospectus is circulated and displayed on web site

### 6.4 Welfare schemes for

Teaching Non teaching Students	<ul style="list-style-type: none"><li>• Free Thalassemia test for staff and students</li><li>• Basic medical facility in University health care by paying Rs. 10 for staff &amp; students</li><li>• Free remedial classes for weak students</li><li>• PDP coaching for students</li><li>• Scholarship from government, management &amp; industries for students</li><li>• Hostel facilities for Boys &amp; Girls</li><li>• Staff Quarters &amp; Directors Bungalow</li></ul>
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### 6.5 Total corpus fund generated

Endowment Fund : Rs. 2744567  
Alumni Fund: Rs.365940

6.6 Whether annual financial audit has been done    Yes     No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Academic and administrative audit was done by Gujarat Government body KCG ( Knowledge consortium of Gujarat)in July 2014 and received A Grade.

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes    Yes     No   
For PG Programmes    Yes     No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Choice based Credit System, Continuous evaluation, Assignment, Project Work

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not applicable as our institute is a self financed affiliated institute

6.11 Activities and support from the Alumni Association

Annual Meeting of Alumni association was organized on 6<sup>th</sup> March,2015.

Sr.No	Department	Name of the Alumni	Type of contribution
1	EST	Mr.AshishDube, ICPT, Vadodara	Expert talk on “Advanced waste water treatment & Environmental laws”on September 10 <sup>th</sup> ,2015
2	EST	Mrs.Reshma Patel, BVM, V.V.Nagar	Expert talk on “Advanced waste water technologies” on September 10 <sup>th</sup> ,2015
3	EST	Dr.Pratik Mehta, Essar, Jamnagar	Expert talk on “EIA- Audit Report & Case Studies” September 10 <sup>th</sup> ,2015
4	IC	MISA- M.Sc. Industrial Chemistry Students Association	Donated 1 Vacuum Pump worth Rs. 20,000/-
5	IC	Dr.Deepak Mishra, Behr Paints, Pune	Expert talk on “Emulsion Polymerisation” on 22 <sup>nd</sup> August,2015
6	IC	Mr.Ashvin Joshi, Aris Technology-Vadodara	Expert talk on“Role of Industrial Chemists in Surface Coating Industry ” on 22 <sup>nd</sup> August,2015
7	Instrumentation	Mr.RonakVyas, Metrohem India Pvt. Ltd., Vadodara	Expert talk on“Analytical Instrumentation ” on 19 <sup>th</sup> September,2015
8	MCA & IT	HardikTrivedi,OM info solutions, Anand	Expert Talk on “ DOT NET “ on 22 <sup>nd</sup> August,2015
9	Organic Chemistry	Mr.JigneshMistry, Atul Ltd.	Expert Talk on “Applications of AAS” on 1 <sup>st</sup> Sep,2015
10	Organic Chemistry	Mr.Tarang Patel, GNFC Ltd.	Expert Talk on “Working Practices in QC lab”on 2 <sup>nd</sup> Sep,2015
11	Surface Coating Technology	Jatin Desai, Spectrum Industry, Dubai	Expert Talk on “Grinding equipments in paint manufacturing”on 19 <sup>th</sup> September,2015
12	Surface Coating Technology	Dr.Chintan Patel, Eastern Michigan University	Expert Talk on “Recent trends in Surface coating Technology” on 19 <sup>th</sup> September,2015
13	Surface Coating Technology	Mr.Vikash Mishra	Expert Talk on Recent trends in Printing Inks" on 3 <sup>rd</sup> March,2016
14	Surface Coating Technology	Mr.ShubhamChandak	Donated pigments and extenders worth Rs.7000/-
15	Valuation	Mr.Ravindra R. Khetani	Expert Talk on Technical aspects in Valuation of Buildings’ on

			7 <sup>th</sup> October 2015
16	Polymer Science & Technology	Mr. Bhavik Mistry, G. S. F. C. Ltd., Vadodara	Expert Talk on “Epoxy Resin its Curing Systems System and Application” 22 <sup>nd</sup> August 2015
17	Polymer Science & Technology	Mr. Jay Maheta, Sr. Executive, Jolly Container Ltd. Daman	Expert Talk on Automated Injection moulding machine, 17 <sup>th</sup> December, 2015
18	Polymer Science & Technology	Mr. Bharat Patel	Donated 25 Kg. Polypropylene and 25 Kg PPCP
19	MIHS	Mr Jagdish Patel, PTRC, Khambhat	Expert Talk on Legal fight for the protection of Silicosis workers, 10/10/2015
20	MIHS	Mr Dhruvit Mehta, EHS Exe. Glaxosmithkline	Expert Talk on IH in Pharmaceutical Industry. 1/8/2015
21	MIHS	Mr. Nitesh Rajput, EHS Exe. Apollo Tyres	Expert Talk on Safety in Tyre manufacturing Industry.
22	MIHS	Mr. Dhaivat Patel, Manager, TD Williamson	Expert Talk on Steel Industry and related perspectives for Industrial hygienist , 9/3/16

#### 6.12 Activities and support from the Parent – Teacher Association

All departments had conducted open house after the internal examination which provided a platform for interaction between parents and teachers

#### 6.13 Development programmes for support staff

The support staff are well trained for interview processing, university affiliation processing, salary pay pack software, online examination related work, Income Tax Service, online submission etc.

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- Most of the notices to staff sent via e mail
- Distribution of eco-friendly bags
- Vermi composting
- SMS services for disseminating student centric information



## Criterion – VII

### **7. Innovations and Best Practices**

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- E learning platform based on MOODLE& Web Seminar
- Staff and students are encouraged to prepare E-Assignments and E-Notes
- E-learning resources: E-journals & INFLIBNET
- Established Remote class room for IIRS (ISRO) programs
- Distribution of 3000 eco-friendly bags worth Rs. 54000/-

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- As per the planning done in the beginning of the academic year, expert talks, seminars, workshops have been organized by all departments
- Short term courses started as per perspective plan
- Approval obtained for two M.Sc. programmes to be started from 2016-17

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

**1. Counseling :**

- To assist students in planning for educational and career choice
- To get information about difficulties faced by students so that their problems can be solved
- To build a reciprocal relation between students and teachers
- To encourage for developing special abilities and right attitudes

**2. Creating Research Culture among Faculty and Students:**

- To identify the emerging areas of research
- To organize seminars/workshops/conferences to create awareness among faculty and students
- To identify the thrust areas of research
- To encourage consultancy in related areas
- CVM Management has constituted a core research team for research activity

7.4 Contribution to environmental awareness / protection

- Reduced the amount of paper work and started using e mail services
- Distribution of 3000 eco-friendly bags

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add.

CVM management fully supports in all matters related to Finance, Academics and Administration

### Strengths

- Strong support and guidance from CVM management
- Adequate committed and qualified staff
- Effective implementation of curriculum
- Adequate Infra structure for ICT enabled teaching learning
- Significant contribution in the curriculum development of S.P.University & Gujarat Technological University
- High quality academic programmes
- Excellent reputation with various recruiting organizations
- 5 labs with 300 net worked computers
- Sophisticated instrumentation facility available in SICART for training in Analytical Instruments
- R & D laboratory for Environmental Science
- State-of-the-art facilities in departmental laboratories
- Initiated industry sponsored research work

### Weakness

- High dependency on graduates from sister institutes
- Quality of students
- Not conducting any summer courses

## **8.Plans of institution for next year**

- Certificate course in various subjects
- Onsite and in-house corporate training program for working professionals
- Re –Accreditation process for KCG Audit
- Faculty Development and strengthening of lab facilities for M.Sc. Mobile Technology and M.Sc. Geoinformatics Program.

*Name Dr. Merlin Thomas*

*Name :Dr.P.M.Udani*

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*Signature of the Coordinator, IQAC*

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*Signature of the Chairperson, IQAC*

## ANNEXURE 1-ACADEMIC CALENDAR 2015-16

<b>FIRST / THIRD SEMESTER</b>	
<b>29<sup>TH</sup> JUNE</b>	REOPENING AFTER SUMMER VACATION
<b>6<sup>TH</sup> JULY</b>	COMMENCEMENT OF CLASSES
<b>1<sup>ST</sup> AUGUST- 15<sup>TH</sup> SEPTEMBER</b>	EXPERT TALKS/SEMINAR-WORKSHOP
<b>AUGUST 16<sup>TH</sup> - SEPTEMBER 15<sup>TH</sup></b>	INDUSTRIAL VISITS
<b>22<sup>ND</sup> SEPTEMBER - 26<sup>TH</sup> SEPTEMBER</b>	INTERNAL THEORY EXAMINATION
<b>30<sup>TH</sup> SEPTEMBER - 15<sup>TH</sup> OCTOBER</b>	INTERNAL PRACTICAL EXAMINATION
<b>19<sup>TH</sup> OCTOBER- 26<sup>TH</sup> OCTOBER</b>	OPEN HOUSE
<b>2<sup>ND</sup> NOVEMBER -14<sup>TH</sup> NOVEMBER</b>	DIWALI VACATION
<b>SECOND/FOURTH SEMESTER</b>	
<b>12<sup>TH</sup> DECEMBER 2015</b>	COMMENCEMENT OF CLASSES
<b>10<sup>TH</sup> JANUARY - 10<sup>TH</sup> FEBRUARY 2016</b>	EXPERT TALKS/SEMINAR-WORKSHOP
<b>10<sup>TH</sup> JANUARY 2016 ONWARDS</b>	COMMENCEMENT OF CAMPUS INTERVIEWS
<b>25<sup>TH</sup> JANUARY</b>	FIRST INTERNAL THEORY EXAMINATION
<b>1<sup>ST</sup> FEBRUARY – 15<sup>TH</sup> FEBRUARY 2016</b>	INDUSTRIAL VISITS
<b>23<sup>RD</sup> MARCH 2016</b>	SECOND INTERNAL EXAMINATION
<b>11<sup>TH</sup> APRIL 2016 ONWARDS</b>	EXTERNAL EXAMINATIONS & ASSESSMENT
<b>16<sup>TH</sup> NOVEMBER ONWARDS</b>	EXTERNAL EXAMINATIONS & ASSESSMENT

## **ANNEXURE 2- FEED BACK**

### **FEEDBACK FROM STUDENTS**

The feedback from students was taken based on the following aspects

- Subject Expertise of faculty
- Knowledge delivery proficiency
- Approach
- Contribution in skill development
- Project Guidance
- Campus Placement

The evaluation was done on a four point scale varying from A to D for excellent and unsatisfactory respectively

In the academic year 2015-16, all teachers got **A GRADE**

### **FEEDBACK FROM EMPLOYER**

Feedback from employers is taken during the time of campus interview. The organisations which regularly recruit the students are satisfied with the performance of senior students working in their units and with the knowledge of those who appeared for interview in the current academic year. No complaints as such have been reported by the various organisations except the need for improvement of soft skills of students.

### **FEEDBACK FROM PARENTS**

Feedback from parents was taken during open house conducted in October 2015. Parents expressed satisfaction over the involvement of ISTAR faculty in moulding the future of students which includes both teaching and encouragement in co-curricular and extracurricular activities.

### **FEEDBACK FROM ALUMNI**

Feedback from Alumni was taken on the day of Annual alumni Day which was organised on 6<sup>th</sup> March, 2016. Most of the Alumni expressed happiness over the facilities available and up gradation in syllabus. Some of them emphasized on activities for improvement of soft skills.