

**Annual Quality Assurance Report
(AQAR)**

Submitted by

Charutar Vidyamandal'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

Email :istarcvmvvn@yahoo.co.uk

Principal :Dr.P.M.Udani

Co-ordinator : Dr.Merlin Thomas

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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



Sardar Patel Centre for Science & Technology, Post Box No.13, Vallabh Vidyanagar-388 120, Dist. Anand (Gujarat), INDIA
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Ref. No. ISTAR/OF/2015-16/ 354

Date: 4th August, 2015

To,

The Director,
NAAC,
P.O. Box No.: 1075,
Nagarbhavi,
Bangalore – 560 072,
Karnataka.


Sub: **Submission of AQAR**
Ref.: Track ID – GJCOGN16891


Dear Sir,

We herewith submit the soft copy of AQAR for the academic year 2014-15.

Thanking you,

Yours truly,


Dr. Merlin THOMAS
Coordinator – IQAC


Dr. P.M. Udani
Principal

Part – A

AQAR for the year

2014-15

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:

IQAC e-mail address:

1.3 NAAC Track ID(For ex. MHCOGN 18879)

OR

1.4 NAAC Executive Committee No. & Date:
(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:

Web-link of the AQAR:

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 st Cycle | A | 3.1 | 2014 | 5 years |
| 2 | 2 nd Cycle | | | | |
| 3 | 3 rd Cycle | | | | |
| 4 | 4 th Cycle | | | | |

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

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 (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

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. I tional N al S In on Level

(ii) Themes

Teacher-Student interaction-A key to quality education

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

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 all freshers was done by IQAC team members |
| 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 |

| | |
|--|--|
| Initiatives for increasing students strength | Admission counselling started from the month of December,2014.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 |
| Auditing of departments | IQAC auditing of departments done once in a year |
| Encouraging departments to conduct seminars & workshops | 18 seminars/workshops arranged by different departments |
| Publication of research Journal | Issue of .NET published in 2014-15 by MCA department |
| Encouraging departments to arrange expert talks, Industrial visits | 18 expert talks and 29 industrial visits organized |
| Encouraging staff for research activities | Submitted research proposals to various funding agencies |
| Improving teaching learning process | Improved |
| Encouraging students for participation in sports & cultural events | Many students participated in various cultural and sports activities organized by the Institute and University |

2.16 Whether the AQAR was placed in statutory body Yes

Management Syndicate 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 | 8 | | | |
| UG | | | | |
| PG Diploma | 1 | | | |
| Advanced Diploma | | | | |
| Diploma | | | | |
| Certificate | 2 | | | |
| Others | | | | |
| Total | 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

(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.

Most of our courses (Polymer Science & Technology, Surface Coating Technology, MIHS, Instrumentation, Master of Valuation, Environmental Science & Technology) are conducted only in our institute . The staff members of all the departments played vital role in the revision of syllabus. The syllabus was revised for all the courses in the last academic year.

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

Nil.

Obtained approval of Governing Body for the following two courses and subsequently proposal were submitted to Sardar Patel University for starting the programmes from the 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.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

| Total | Asst. Professors | Associate Professors | Professors | Others |
|-------|------------------|----------------------|------------|--------|
| 27 | 22 | Nil | 05 | |

2.2 No. of permanent faculty with Ph.D.

16

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 |
| | 1 | | | | | | | 2 | |

2.4 No. of Guest and Visiting faculty and Temporary faculty

Visiting :33

Temporary:07

2.5 Faculty participation in conferences and symposia:

| No. of Faculty | International level | National level | State level |
|------------------|---------------------|----------------|-------------|
| Attended | 03 | 19 | 05 |
| Presented papers | 03 | | 02 |
| Resource Persons | | 06 | 04 |

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

- WIFI Campus for faculty students to make use of internet for study material
- Use of MOODLE e-learning platform
- Use of multi media 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

200

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 % |
| Env. Science & Technology | 42 | 14 | 15 | 100 |
| Industrial Chemistry | 68 | 43 | 50 | 100 |
| Instrumentation | 10 | 20 | ---- | 100 |
| Information Technology | 65 | 40 | 22 | 100 |
| Master of Industrial Hygiene & safety | 15 | 47 | 47 | 100 |
| Organic Chemistry | 21 | 9.5 | 61.9 | 71 |
| Polymer Science & Technology | 25 | 36 | 52 | 100 |
| Surface Coating Technology | 50 | 22 | 16 | 100 |
| Master of Valuation (Real estate) | 18 | 03 | 03 | 100 |
| Master of Valuation (plant & machinery) | 05 | ----- | 01 | 100 |
| MCA | 116 | 57 | 18 | 95.68 |

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 | |
| Staff training conducted by the university | 02 (organized by Sardar Patel University IQAC) |
| Staff training conducted by other institutions | |
| Summer / Winter schools, Workshops, etc. | 24 |
| Others | 1 (Faculty development programme – training program of ISRO) |

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 | 15 | 0 | 0 | 0 |
| Technical Staff | 28 | 0 | 0 | 0 |

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 was given on promoting research culture in the institute

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

3.2 Details regarding major projects

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number | 01 | 02 | | |
| Outlay in Rs. Lakhs | 522000 | 1470000 | | |

3.3 Details regarding minor projects

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number | 04 | 01 | | |
| Outlay in Rs. Lakhs | 320000 | 140000 | | |

3.4 Details on research publications

| | International | National | Others |
|--------------------------|---------------|----------|--------|
| Peer Review Journals | 65 | 10 | |
| Non-Peer Review Journals | | | |
| e-Journals | | | |
| Conference proceedings | 05 | 01 | |

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 | 2013-16 2013-16 | GUJCOST UGC | 2,30,000 12,30,000 | 185000 700000 |
| Minor Projects | 2013-15 | UGC | 460000 | 390000 |
| Interdisciplinary Projects | | | | |
| Industry sponsored | | | | |
| Projects sponsored by the University/ College | | | | |
| Students research projects <i>(other than compulsory by the University)</i> | | | | |
| Any other(Specify) | | | | |
| Total | | | | |

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 | Round Table Discussion On Challenges & Opportunities In Chemical Industries on 15 th December,2014 | M.Sc. Industrial Chemistry students association(MISA) | State |
| 2 | A Workshop on Chemical Analysis and Calibration of Laboratory Instruments 10 th January,2015 | M.Sc. Industrial Chemistry students association(MISA) | State |
| 3 | CHEM-INNOVA 2015 ,A Paper Presentation Competition Based On New Trends & Developments in Chemical Sciences & Technology,31 st January,2015 | MeghmaniIndustries,Ahmedabad | State |
| 4 | National Safety Day | CVM | Local |
| 5 | International Hygiene Conference West Inn Mumbai | Central Industrial Hygiene Association,American Industrial Hygiene Association | International |
| 6 | Workshop On Best Practices In Research And Development,12 th February,2015 | CVM Management | State |
| 7 | PLC Workshop for Unemployed Diploma Holders | CVM Management | Local |
| 8 | Frontiers in Instrumentation,11 th October 2014 | ISA – Gujarat Section & Emerson Process Management, Vadodara | State |
| 9 | Embedded Systems ,13 th & 14 th February 2015 | CVM Management | Local |
| 10 | One Day Workshop on “Career Opportunities in Valuation Profession after Civil Engg” Friday, 13 th February, 2015 | CVM Management | Local |
| 11 | One Day Seminar on Valuation of Real Estate and Plant & Machinery Saturday, 28 th February, 2015 | CVM Management | National |
| 12 | One Day Workshop on “PHP and MySQL Technology” (OSTC) – 25 th Nov 2014 | National Mission on Education through ICT, MHRD, Govt. of India | Local |
| 13 | National Workshop on Network, Network Simulation & Information Security [NWNSIS-2014]24 th - 29 th November 2014 | IEEE Gujarat Section | National |
| 14 | Technokhoj – 2015 20 February 2015 | CVM Management | State |
| 15 | National Seminar on Advances in Environmental Science & Technology, 28 February, 2015 | GEC, Gandhinagar | National |
| 16 | One Day Regional Workshop on Recent Trends in Environmental Science & Technology, 11-09-2014 | CVM Management | State |
| 17 | GIS Technology & Applications 22 nd January,2015 | ISG | State |
| 18 | One week short term course for Academic Staff College,Sardar Patel University | CVM Management | State |

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

3.16 No. of patents received this year

| Type of Patent | | Number |
|----------------|---------|--------|
| National | Applied | Nil |
| | Granted | Nil |
| 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

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

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

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. of students participated in NCC events:

University level State level
National level International level

3.23 No. of Awards won in NSS:

University level State level
National level International level

3.24 No. of Awards won in NCC:

University level State level
National level International level

3.25 No. of Extension activities organized

University forum 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 |
|---------|--|
| 1. | SudamaniJoli in association with rotary Club,Anand |
| 2. | Thalassemia check up camp |
| 3. | Tree plantation |
| 4. | Active Participation in “Pradhanmantri Jan DhanYogna” and SwatchataAbhiyan |
| 5. | Survey for toilet facilities |
| 6. | Blood donation camp |
| 7. | Poster making competition on AIDS awareness |
| 8. | Lecture on AIDS awareness |
| 9. | 1 week Special camp by NSS in Gana Village |

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. | | 02 | UGC Project CVM Management | 02 |
| Value of the equipment purchased during the year (Rs. in Lakhs) | | 418600 | UGC Project CVM Management | 418600 |
| LCD | 14 | 02 | CVM Management | 1,82,294/- |
| AC | 08 | 01 | CVM Management | 23,500 |
| CCTV Camera | 40 | Nil | CVM Management | 40 |

Detailed Information for Laboratory equipment

| Equipments | Source of fund | Total in Rs. |
|---|----------------|--------------|
| Rotary Evaporator | UGC Project | 1,35,000 |
| Wind Wane, Min. Max. Thermometer, Rain Gauge | GEC Project | 26,000 |
| Shoxlet Apparatus | UGC Project | 6,000 |
| Refrigerator | CVM Management | 12,000 |
| Impact Testing Machine | CVM Management | 100000=00 |
| Colorimeter | CVM Management | 139600 |
| pH meter | | |
| Conductometer | | |
| Centrifuge | | |
| Cloud & Pour point apparatus-2 Nos | | |
| RICO make polarimeter920mm) with sodium lamp- | | |
| RSPT1-1 No Flash & fire point apparatus-2 Nos | | |

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

10 new computers with internet connection have been installed in library in the last academic year

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. | Value in Rs | No. | Value in Rs | No. | Value in Rs |
| Text Books | 10319 | 3794051 | 327 | 192040 | 10646 | 3986091 |
| Reference Books | 792 | | 10 | | 802 | |
| e-Books | 0 | 0 | 97000 | | 97000 | |
| Journals | 39 | 2055971 | 35 | 42403 | 35 | 2098374 |
| e-Journals | 0 | 0 | 6000 | 5000 | | |
| Digital Database | 0 | 0 | | | | |
| CD & Video | 0 | 0 | | | | |
| Others (specify) | 0 | 0 | | | | |

4.4 Technology up gradation (overall)

| | Total Computers | Computer Labs | Internet | Browsing Centres | Computer Centres | Office | Departments | Others |
|----------|-----------------|---------------|----------|------------------|------------------|--------|-------------|--------|
| Existing | 288 | 05 | 01 | | 01 | 01 | 11 | |
| Added | 10 | | | | | | | |
| Total | 298 | 05 | 01 | | 01 | 01 | 11 | |

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (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 | 81060 |
| ii) Campus Infrastructure and facilities | 125200 |
| iii) Equipments | 16990 |
| iv) Others | 22968 |
| Total : | 246218 |

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 other levels 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

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 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 Counseling
- Suggestion Box
- Feedback from Students

5.3 (a) Total Number of students

| UG | PG | Ph. D. | Others |
|----|-----|--------|--------|
| | 621 | 20 | |

(b) No. of students outside the state

20

(c) No. of international students

Nil

| | | | | | |
|-----|-----|-------|-------|-----|-------|
| Men | No | % | Women | No | % |
| | 507 | 81.64 | | 114 | 18.36 |

| Last Year | | | | | | This Year | | | | | |
|-----------|----|----|-----|-----------------------|-------|-----------|----|----|-----|-----------------------|-------|
| General | SC | ST | OBC | Physically Challenged | Total | General | SC | ST | OBC | Physically Challenged | Total |
| 353 | 06 | 08 | 65 | Nil | 432 | 263 | 08 | 10 | 39 | Nil | 320 |

Demand ratio 1.15 Dropout % 2.2

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 .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 | 01 | LET | GA | | 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
- Personality development programme conducted for all students in association with Career Development Center, Vidyanagar

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 |
| 64 | 271 | 147 | 45 |

5.8 Details of gender sensitization programmes

One day seminar on “**Health Awareness and Women Empowerment**” on Wednesday, 4th March 2015 organized by Women Cell of ISTAR

Rangoli Competition on the theme of Women empowerment

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 | 05 | 49000 |
| Financial support from government | 21 | 1703950 |
| Financial support from Industries | 14 | 438800 |
| Financial support from Alumni Association | 02 | 40000 |
| Number of students who received International/ National recognitions | 01 | 1,30,000 |

SCHOLARSHIP FROM GOVERNMENT

| Sr.No | Type of scholarship | No. of students benefitted | Amount in Rs. |
|-------|---------------------|----------------------------|---------------|
| 1 | ST less income | 05 | 466460 |
| 2 | ST high income | 06 | 543540 |
| 3 | SC less income | 07 | 681060 |
| 4 | S.C. high income | 02 | 10600 |
| 5 | SEBC/OBC | 01 | 2290 |

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

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

6.3.3 Examination and Evaluation

- Institute follows the examination patterns specified by the university. Which involves Assignment, seminar, objective test, project 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.

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.
- 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 net work computers
- CCTV Surveillance Services

6.3.6 Human Resource Management

- Biometric system and Management Information System
- 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. 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
- 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
- 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">• Free Thalassemia test for staff and students• Basic medical facility in University health care by paying Rs. 10 for staff & students• Free remedial classes for weak students• PDP coaching for students• Scholarship from government, management & industries for students• Hostel facilities for Boys & Girls• Staff Quarters & Directors Bungalow |
|--------------------------------------|--|

6.5 Total corpus fund generated

Endowment Fund :Rs. 902777
Alumni Fund: Rs.182000

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 6th March,2015.

| Sr.No | Department | Name of the Alumni | Type of contribution | |
|-------|------------------------------------|--|--|--|
| 1 | Industrial Chemistry | Mr.DilipPatel,Lupin ltd | Expert Talk on HAZOP on 5 th September | |
| 2 | | Mr.HarshilSoni, Reliance,Jamnagar | Expert Talk on Petroleum Refinery operations On 14 th August | |
| 3 | | Dr.Prashant Pandya, Pidilite,Mumbai | Expert Talk on Shell & Core Polymers on 7 th March,2015 | |
| | | MISA(M.Sc. Industrial Chemistry students Association) | | Gave scholarship of Rs. 20000/- each to two students of Industrial Chemistry |
| 4 | | | | Organized Elocution competition for students on 29 th July |
| 5 | | | | Organized Debate Competition for students on 9 th July 2014 |
| 6 | | | Sponsored State level <ul style="list-style-type: none"> • Round Table discussion on Challenges and Opportunities in Chemical Industries • Workshop on Chemical Analysis and Calibration of Laboratory Instruments | |
| 7 | Industrial Hygiene & Safety | Shri ShrenikRanpura | Expert talk on Air Sampling | |
| 8 | | Shri KrunalGohel | Expert talk on Safety | |
| 9 | | Ms Milita Patel | Expert talk on Importance of Industrial Hygiene | |
| 10 | | Shri Deepen Sakariya | Expert talk on Career in Industrial Hygiene | |
| 11 | Organic Chemistry | Dr.JigneshMistri | Expert talk on Analytical Instruments | |
| 12 | Master of Valuation | Hemant C. Shah | Donated 20 books related to Valuation | |
| 13 | MCA | Mr. Hardik Trivedi | Guided MCA – 6 th semester students for project work | |
| 14 | Environmental Science & Technology | Mr. Ashish Dubey | Expert Talk on EIA & Legislation | |
| 15 | | Mr. Saurabh Patel | Expert Talk on Management Plan of Bhoj Wetland, M.P. | |
| 16 | Information Technology | Mr.Siddharth J Mehta | Expert Talk on Bharuch nagarpalika software application. | |

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

- Mr. Jatin Patel, Asst. Librarian attended for TWO days workshop on DSPACE:A step towards Digitization of Library organized by ARIBAS from 24th-25th April,2015
- Ms. Heena Patel (TPO), Mr.Sumit Patel (Junior Clerk) and Mr. Dharmesh Sharma (Junior Clerk) had attended programme on Communication and Writing skill in English conducted by Career Development Centre,Vidyanagar.

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

- Most of the notices to staff sent via e mail
- Tree planatation with the help of NSS
- Vermi composting
- SMS services for disseminating student centric

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

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

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
- Tree plantation

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add.

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 work computers
- Sophisticated instrumentation facility available in SICART for training in Analytical Instruments
- Principal recognized as assessor by KCG and invited by peer committee, Govt. of Gujarat for assessment of Colleges and universities

Weakness

- High dependency on graduates from sister institutes
- Quality of students
- Non conduction of any summer courses
- Not much sponsored research from Industry

8.Plans of institution for next year

- Start M.Sc. in Mobile Technology & applications and M.Sc. in Geo Informatics
- Start Three month certificate course on Best Practices In R & D in Industry
- Certificate course in
- PLC
- Microprocessor based embedded systems
- Pollution Control & Monitoring
- Expanding lab facilities in newly introduced elective subjects
- Six Months course on Valuation of Real Estate and Plant & Machinery
- Onsite and in-house corporate training program for working professionals
- 3 Days On-hand Training Program on Environmental Pollution Monitoring & Health Risks
- Re –Accreditation process for KCG Audit

Name Dr. Merlin Thomas

Name :Dr.P.M.Udani

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

ANNEXURE 1-ACADEMIC CALENDAR 2014-15

| SR.NO | FIRST TERM | |
|--|---|---|
| 1 | 16 TH JUNE | REOPENING AFTER SUMMER VACATION |
| | 22 ND JUNE | COMMENCEMENT OF CLASSES FOR SEMESTERS 1 & 3 |
| 2 | 25 TH JUNE-30 TH JUNE | ELECTION - CENTRAL COMMITTEE |
| 3 | 29 TH JULY | RAMZAN EID |
| 4 | 10 TH AUGUST | RAKSHA BANDAN |
| 5 | 15 TH AUGUST | INDEPENDENCE DAY |
| 6 | 18 TH AUGUST | PATETI |
| 7 | 29 AUGUST | SAMVATSARI |
| 8 | 22 ND JULY- 24 TH AUGUST | EXPERT TALKS |
| 9 | 25 TH AUGUST- 31 ST AUGUST | THALASSEMIA TESTING & OTHER NSS ACTIVITIES |
| 10 | 1 ST SEPTEMBER - 14TH | INDUSTRIAL VISITS |
| 11 | 5 TH SEPTEMBER | TEACHERS DAY CELEBRATION |
| 12 | 16 TH SEPTEMBER | OZONE DAY CELEBRATION |
| 13 | 24 TH SEPTEMBER - 27 TH SEPTEMBER | INTERNAL THEORY EXAMINATION |
| 14 | 28 TH SEPTEMBER- 10 TH OCTOBER | INTERNAL PRACTICAL EXAMINATIONS |
| 15 | 1 ST OCTOBER | NAVARATRI CELEBRATION |
| 16 | 2 ND OCTOBER | GANDHI JAYANTI |
| 17 | 3 RD OCTOBER | DUSSHERA |
| 18 | 6 TH OCTOBER | BAKRI -ID |
| 19 | 10 TH -13 TH OCTOBER | OPEN HOUSE |
| 20 | 23 RD OCTOBER | DIWALI |
| 21 | 24 TH OCTOBER | NEW YEAR |
| 23 | 25 TH OCTOBER | BHAI BEEJ |
| 24 | 27 th OCTOBER-8 TH NOVEMBER | DIWALI BREAK |
| 25 | 10 TH NOVEMBER | REOPENING AFTER DIWALI BREAK |
| 26 | 17 TH NOVEMBER – 20 TH DECEMBER | EXTERNAL EXAMINATIONS& ASSESSMENT |
| | SECOND TERM | |
| 1 | 22 ND DECEMBER | COMMENCEMENT OF CLASSES FOR SEMESTERS 2 & 4 |
| 2 | 25 TH DECEMBER | CHRISTMAS |
| 3 | 1 ST JANUARY - 20 TH JANUARY | EXPERT TALKS |
| 4 | 13 TH JANUARY | UTTARAYAN CELEBRATION |
| 5 | 14 TH JANUARY | MAKAR SANKRANTI |
| 6 | 20 TH JANUARY | COMMENCEMENT OF CAMPUS INTERVIEWS |
| 7 | 24 TH JANUARY – 10 TH FEBRUARY | INDUSTRIAL VISITS |
| 8 | 26 TH JANUARY | REPUBLIC DAY |
| 9 | 17 TH FEBRUARY | SHIVRATRI |
| 10 | 20 TH FEBRUARY – 25 TH FEBRUARY | NSS ACTIVITIES |
| 11 | 6 TH MARCH | HOLI |
| 12 | 8 TH MARCH-11 TH MARCH | INTERNAL THEORY EXAMINATION |
| 13 | 12 TH MARCH-21 ST MARCH | INTERNAL PRACTICAL EXAMINATION |
| 14 | 27 TH MARCH | SRI RAM NAVMI |
| 15 | 1 ST APRIL | CHETTI CHAND |
| 16 | 2 ND APRIL | MAHAVIR JAYANTI |
| 17 | 3 RD APRIL | GOOD FRIDAY |
| 18 | 14 TH APRIL | AMBEDKAR JAYANTI |
| 19 | 18 TH APRIL-16 TH MAY | EXTERNAL EXAMINATIONS & ASSESSMENT |
| 20 | 18 TH MAY- 27 TH JUNE | SUMMER VACATION |
| All cultural, co-curricular and sports competitions organized by central committee will commence in the month of August and continue till the annual day & talent evening celebrations which takes place in the first week of March. | | |

ANNEXURE 2- FEED BACK

FEEDBACK FROM STUDENTS

The feedback from students was taken based on the following aspects

- Subject Expertise
- 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 2014-15, no teacher obtained grade below B.

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 have been reported by the various organisations except the retention time of students as some of the students recruited last year left the organisations even before the completion of probation time. Some of the organisations expressed the need for improvement of soft skills of students.

FEEDBACK FROM PARENTS

Feedback from parents weretaken during open house. 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 6th March,2015.Some of the Alumni expressed the need to organise more Industrial tours and activities for improvement of softskills.