

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



WELCOMES

NAAC PEER TEAM

**Prof. G. C. Hazarika
(Chairperson)**

**Prof. Vishwanath B. Hiremath
(Member Coordinator)**

**Prof. M. Y. Khan
(Member)**

INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH



*Accredited
A – Grade
By*

*Knowledge
Consortium
Of Gujarat*

**Recognized in 2012 under 2 f & 12 B of UGC ACT
APPRAISAL REPORT FOR NAAC REVIEW**

PRESENTED BY

Dr. P. M. UDANI, Principal, ISTAR

Established in 1945 for Education in Rural Area



VP & RPTP: First Science College
Established by CVM In 1947

BVM: First Engineering College Established by CVM in
Gujarat in 1948 before the conception of IIT's

48 Institutes providing education in Engineering, Pure &
Applied Science, Law, Management, Pharmacy, Commerce

5 CVM Institutes Accredited with A Grade & 3 CPE Status



**Dr. C. L. PATEL,
CHAIRMAN, CVM**



Visionary
Leader
&
Educationist

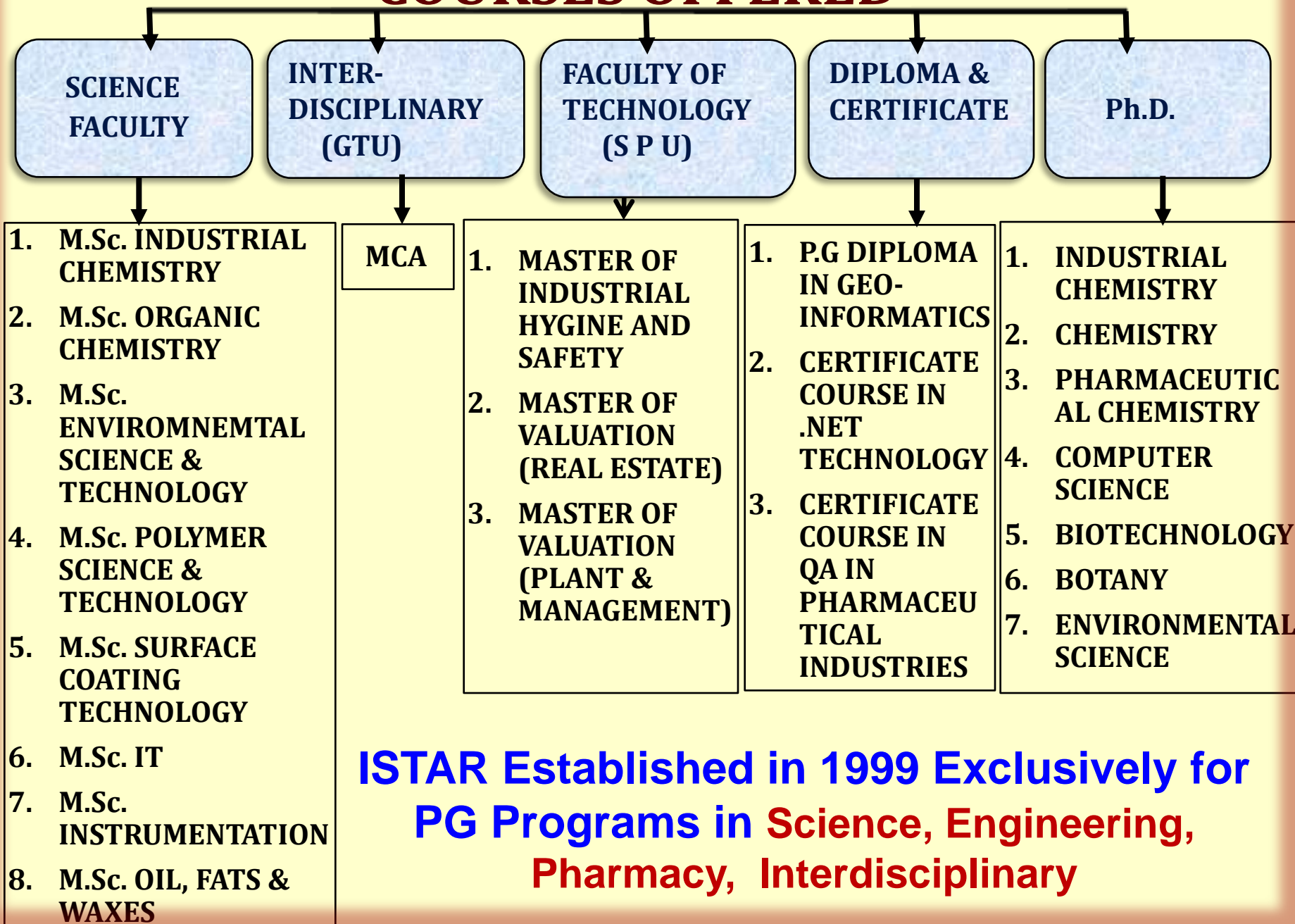
Pioneer in
Establishing
Self Financed
Institutes
in Gujarat

**Prin. S M Patel, Hon. Secretary
Dr. J D Patel, Hon. I/C Secretary**

Hon. Jt. Secretaries

**Prin. R C Desai, Er. V M Patel, Shri B P Patel
Dr. S G Patel , Shri M J Patel**

COURSES OFFERED



**ISTAR Established in 1999 Exclusively for
PG Programs in Science, Engineering,
Pharmacy, Interdisciplinary**



Vision

Provide Globally
Relevant Education
with Emphasis on

Knowledge,
Enlightenment
& Self-realization

Mission

Establish Infrastructure Facilities and
Conducive Environment
for

Career & Character building of students
as per the aspirations of world of
tomorrow

**Recognized Leadership in Establishing
Institutes & Innovative Programs**

Dr. C. L. Patel, Chairman of Self Finance Colleges Association

CURRICULAR ASPECTS



Curriculum Planning & Implementation

- 11 Faculty Members in Board of Studies (SPU, GTU)
- Involving Industry Experts in syllabus framing
- First College in India to start Master of Valuation (RE & PM) & MIHS (Recognized by Factory Act for Safety Officer Job)
- M.Sc. In IC, EST & INST – Introduced by ISTAR in Gujarat
- M.Sc. in SCT – A Novel program for Paint Industry
- Teaching Plan Monitored by HoD & Director
- Monthly course completion report and Teacher Diary

(Planning within the frame work of affiliating Universities)

Curriculum Implementation: Lectures, Web Seminars, Practical, Industrial Visit, Assignments, Project Work , Expert Lectures and Industrial Training (**part of course work**)



The Gujarat Government Gazette

EXTRAORDINARY

PUBLISHED BY AUTHORITY

Vol. XLVI] WEDNESDAY, DECEMBER 14, 2005/AGRAHAYANA 23, 1927

Separate paging is given to this Part in order that it may be filed as a Separate Compilation.

PART IV-A

Rules and Orders (Other than those published in Part I, I-A and I-L) made by the Government of Gujarat under the Central Acts.

LABOUR AND EMPLOYMENT DEPARTMENT

Notification

Sachivalaya, Gandhinagar, 14th December, 2005.

THE FACTORIES ACT, 1948.

No. GHR-2005-124-FAC-2005-2350-M(3) :- In exercise of the powers conferred by section 112 of the Factories Act, 1948 (63 of 1948), the Government of Gujarat hereby makes the following amendments in "Gujarat Safety Officers (Duties, Qualifications and Service Conduct) Rules, 1983" declared by Notification No.: KHR-556-FAC-1077-36875-M.1, dated 17th September, 1983, under the Factories Act, 1948.

1. These rules may be called the Gujarat Safety Officers (Duties, Qualifications and Service Conduct) (Amendment) Rules, 2005.
2. The following shall be substituted in place of existing sub-rule (ii) of rule 3, namely :-

"(ii) No person shall be continued as a Safety Officer in a factory for a period of more than two years after his first appointment as a Safety Officer, unless he obtains or has obtained-

- (a) Master degree or diploma in industrial safety recognized by the State Government in this behalf, or;
- (b) Master degree in Industrial Hygiene and Safety awarded by the Institute of Science & Technology of Sardar Patel University, Vallabh Vidhyanagar, Gujarat."

By order and in the name of the Governor of Gujarat,

K. B. VASAVA,
Deputy Secretary to Government.

Academic Flexibility



- Semester System in 2009
- Choice of Electives (CBCS) in 2010
(First to implement in Gujarat)
- Add-on PG diploma (1) ; Certificate Courses (2)
- 12 hours / semester coaching by Career Development Centre (CVM) and Globe Arena (Hyderabad)
- Freedom of Planning for Workshop, Field Visit, Project Work

Curriculum Enrichment

- Language lab for Communication Skill Development
- Study Tour (82) , Seminar (32), Expert Talk (142)
- Project Work
- Personality and Life Skill Development
- Sophisticated Instrumentation Training (SICART)
(EST,IC,PST,SCT,INST,MIHS, OC Departments)



Academic Linkages

Missouri University, USA	Cincinnati University USA
NIT Surat	NIOH, Ahmedabad
ISG, IIRS (ISRO)	Medical College , Karamsad

Feedback System

Formal & Informal from Alumni	
Recruiting Organization	Expert & Visiting Faculty
Technology Trend	Students

CURRICULUM UPDATION (SINCE 2009)

Department	New Courses Introduced
Env. Science & Technology (2012)	Env. Physiology & Toxicology , Env. Resource & Conservation Waste Management & Control Tech. , Env. Geology & Oceanography
Instrumentation (2010)	Analytical Instrumentation , Advanced Microprocessor System Computer Aided Process Control , Medical Imaging Systems
MCA (2013)	MIS & GIS , Advanced Networking Java Programming , Wireless Communication
IT (2012)	Windev Technology
Industrial Chemistry (2012)	Safety Engineering, Utility Engineering, Utility Engineering, Drug Design & Development, Pharmaceutical Technology, Processing of Oils & Fats, Petrochemicals
Polym.Sci. & Technology(2012)	Industrial Chemistry 1 & 2,Industrial Management Industrial Hygiene & Safety, Sophisticated Instrumental Analysis
Surface Coating Technology(2010)	Surface Chemistry & Surface Engineering Fundamental Mechanical Engineering, E-business & Entrepreneurship Environmental Management, Marketing Management

Best Practices



- Academic Linkages & Add-on courses
- Graduate Attributes: Employability, Valuable & Worthy Citizens, Academic Excellence for competitive world
- Institute Prospectus & Website providing details about Unique Features of programs, Curricular Structure & Job Aspects



Institute Prospectus



Institute WEBSITE

TEACHING-LEARNING AND EVALUATION



Student Enrolment & Profile

PG Programs

	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
SC	4	7	15	8	7
ST	3	1	3	4	8
OBC	24	69	71	61	42
GENERAL	204	305	413	397	355
TOTAL enrolled	235	382	502	470	412
TOTAL students	542	617	884	972	882

Students from other States

Year	No. of students
2009-10	18
2010-11	32
2011-12	57
2012-13	50
2013-14	26

Admission based on Merit and Govt. Reservation Policy



Catering to Student Diversity

- Remedial classes for slow learners
- Advance learners encouraged to publish / present papers
- **“Earn while Learn” – Ph.D. student paid for teaching support (labs & tutorials)**
- **Boys & Girls Hostel**

Courses / Seminars for Advance Learners

- Android Technology for IT / MCA students
- IIRS & ESRI WEB Seminars for Geoinformatics Students
- NI WEB Seminars for Instrumentation

TEACHING STAFF



Qualification	Professor	Associate Professor	Assistant Professor	Adjunct Professor	Total
Ph.D.	05	02	15	01	23
PG			17	01	18
M.Phil.			01		01
Total					42

11 Pursuing Ph.D.

**Recruitments as per UGC / AICTE Norms
NON TEACHING STAFF**

Sr. No.	Category	No. of Employees
1	Clerk	07
2	P.A.	01
3	Assistant Librarian	01
4	Lab Assistant	11
5	Attendant	04
6	Store Keeper	01
7	Network Technician	02
8	Computer Operator	01
9	Driver	01
10	Hamal	19
TOTAL		48

DIVERSITY OF STAFF

Degree in Engineering (5)	Degree in Science (22)	Degree in CS & CA (16)
Chem. Engineering-1	Chemistry - 7	Computer Science- 5
Civil Engineering- 2	Industrial	Computer Applications -11
Industrial hygiene & Safety-1	Chemistry- 6	
	Env. Science - 3	
	Electronics- 2	
	Botany- 1	
	Physics- 2	
IT -1	Instrumentation- 1	

TEACHER QUALITY



- Faculty members well aware about Technology Trends
- Add-on courses demonstrating expertise of teaching staff
- Faculties using ICT tools and NPTEL contents
- Teacher : Student Ratio **1:20**
- Faculty members supporting programs conducted by UGC Academic Staff College
- 40 % Staff invited as resource faculty for conferences

Recognized Ph.D. Guide : 11	11 BoS Members , SPU
Ph.D. Awarded : 20	1 BoS Member , GTU
Enrolled for Ph.D. : 18	1 BoS Member HBTI , Kanpur

AWARDS FOR TEACHERS

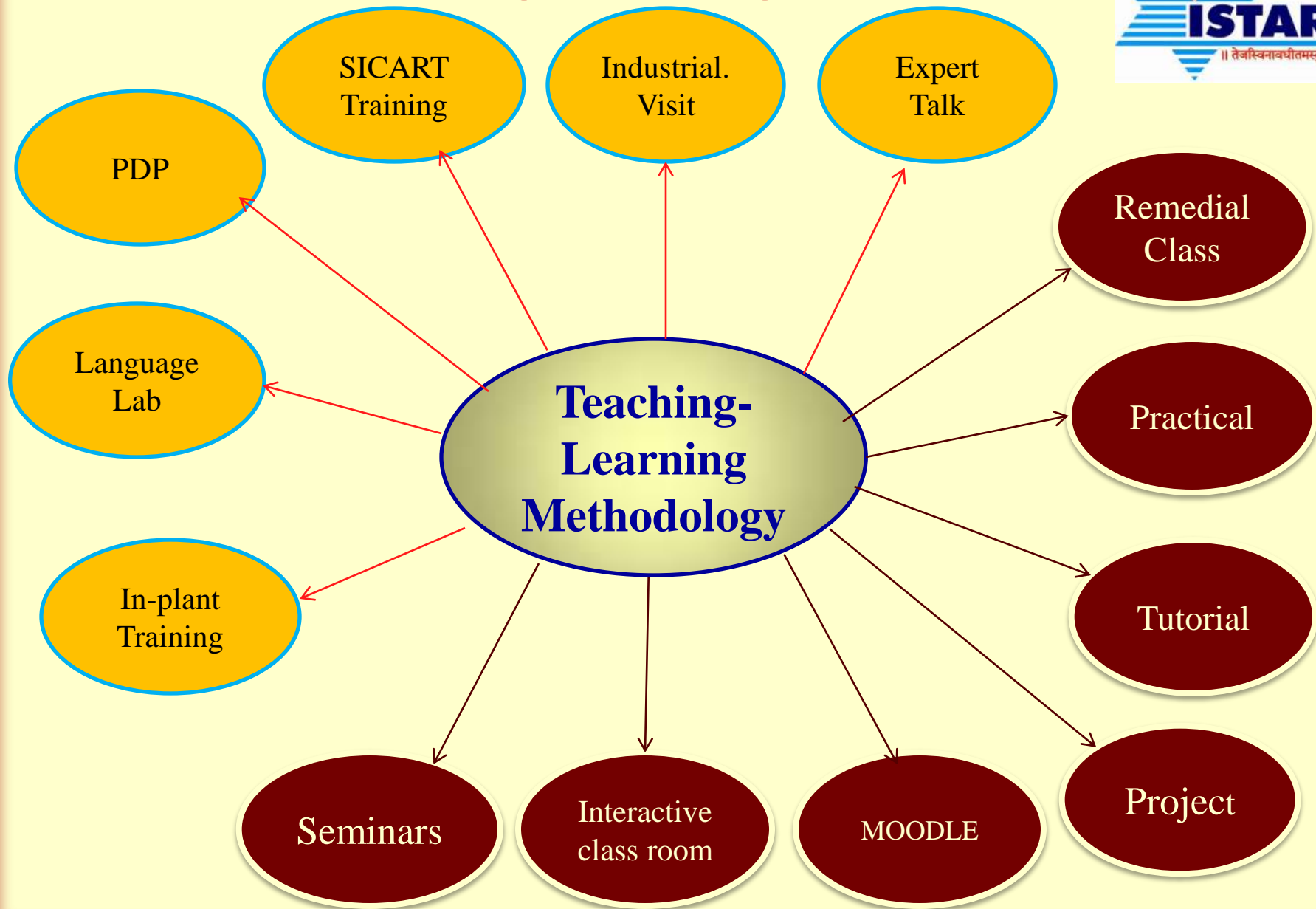


- **Dr. Nirmal Kumar** received Bharat Shikshak Ratan Award from Global Society for Health & Education Growth, G.D. Chambers, Delhi in 2011
- **Dr. A. K. Dighe, Dr. Merlin Thomas & Dr. Nirmal Kumar** received **Award of Exemplary Performance** from CVM
- **Dr. Samrat O. Khanna** received **Charotar Gaurav Award 2013** from CVM.
- **Dr. Hiren Soni** received **Best Research Paper Award (2013)** by Int. Journal of Environment (**IJE**) (ISSN: 2091-2854)
- **Dr. Hiren Soni** won 2nd Prize for his Research Paper “Patterns of Seasonal Abundance and Diversity of Waterbird Community of Nal Lake Bird Sanctuary” at National Seminar Organized Hemchandracharya North Gujarat University , Patan in 2013
- **Mr. Vikash Mishra** secured 1st prize (Rs 4000/- and Certificate) in Debate competition during 11th International Symposium on Surface Protective Coatings held at Ahmedabad in 2014
- **Dr. Narayan Joshi** awarded Drona Award **by IBM**

Professional Association of Faculties

Sr No	Society	No. Members	Sr No	Society	No. Members
1	Computer Society of India (CSI)	6	15	Institute of Engineers, India	1
2	Indian Society of Geomatics (ISG)	14	16	Institute of Surveyors, India	1
3	Association for Computing Machinery, ACM	2	17	Institute of Valuers, India	1
4	American Geophysical Union	1	18	Institution of Engineers, India	1
5	Institute of Electrical & Electronics Engineers (IEEE)	1	19	Institution of Environmental Engineers	1
6	Color Society- Mumbai,	1	20	International Association of Engineers (IAENG), Hong Kong ,China	1
7	Division of Environmental Chemistry, American Chemical Society, USA	1	21	Japanese Association of Hydrologists	1
8	Geological Society of America	1	22	National Institute of Ecology, Delhi	1
9	IEEE & IEEE Computer Society	1	23	Neutron Scattering Society, BARC - Bombay	1
10	Indian Institute of Chemical Engineers	1	24	Oil Technology Association of India	1
11	Indian Plastics Institute, Bombay	1	25	Paint & Coating Technologist Association- Kanpur	2
12	Indian Physics Association of Teachers	1	26	Society for Surface Protective Coating	1
13	Indian Society for Technical Education	1	27	Special Interest Group of Artificial Intelligence (SIGAI)	1
14	Indian Science Congress Association (ISCA), Kolkata	1	28	Institution of Electronics & Telecommunication Engineers	1

Teaching - Learning Process



VISITING FACULTY(2009-2014)



Course contents of Engineering, Management , Medical Science and Economic Domain

Engineering Colleges of CVM
Science Colleges of CVM

Commerce & Management Colleges of CVM

Pramukh Swami Medical College
National Institute of Occupational Health, Ahmedabad

Consultants
Departments of S.P.U

Missouri University of S & T , USA
Cincinnati University, USA

Faculty, Missouri University of S & T, USA conducting short-term course



Course Certificate



Graduate Meet 2013 & Dr. Carol Rice, University Of Cincinnati, USA

EXPERT TALK June 2009 – May 2014

Department	Number of expert talks(2009-14)
MCA	15
IT	16
IC	19
PST	13
SCT	23
OC	02
EST	25
Instrumentation	05
Valuation	23
Total	142

- Mr. Johan , Technical Consultant, UAE
- Dr V.M. Mannari, Eastern Mich.Univ. USA
- Mr.Jayen Barochia, SABIC, Saudi Arabia
- Mr. Maharshi Mehta, CIH,USA

- Dr. Yogendra Chauhan, Manager, Bayer, Noida
- Mr. Shrenik Ranpura, 3M India Ltd. , A'bad
- Mr. Rakesh Shah, Reliance Ind. Jamnagar
- Mr. L T Mohanty, British Paints, Delhi
- Mr. K.Thanawalla, Khamir Inds., Mumbai
- Mr. Anshuman Shukla , Melzer . Ltd., Pune
- Dr T K Roy, Huebach, Ankleshwar
- Mr. Daxesh Mankad, Arista Life Science, Kalol
- Mr.D.M.Joshi, G.M. Lupin , Ankleshwar
- Mr.Manoj Mavani, Bhumi Electrochem

SEMINAR / CONFERENCE CONDUCTED

State Level	National Level	International Level
24	07	01



ISTAR-CSI Android Workshop



Faculties & Students Participated in Int. Conference Hosted by CIHA (ISTAR) & AIHA (USA)



ISTAR – ISG Seminar



Personality & Life Skill Development

General Aptitude, Behavioral Attitude, MOCK Interview,
Group Discussion, Resume Preparation



Profile of Head of the Institute



- 29 years of R & D Experience at ISRO
- **Technology Developed & Commercialized (2007-2012)**
QPad Mobile GIS & IGIS Desktop IP & GIS

Major Assignments & Achievements (2002-12)

- Deputy Project Director, Disaster Management Project (MHA & ISRO)
 - Project Manager , NR Portal of ISRO
 - Project Manager, NRIS Program of ISRO (17 States of India)
 - Project Manager, IT Systems, GramSat Program of ISRO
-
- PM, Communication Systems & Training, VRC Program(Across India)
 - PM, GPS-GIS Unification System & Services
-
- Member Secretary, Task Team (DST & ISRO) for Datum Conversion
 - Resource Faculty for UN SATMET & SATNAV, & NIDM, ASC (SPU)
 - Published / Presented more than 30 Research Papers
-
- Secretary I E T E Ahmedabad for 2 terms (2004-6, 2006-8)
 - EC Member (2014-17), Indian Society of Geomatics (ISG), India

Evaluation Process & Reforms

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SR. NO.	DUTY/FUNCTION	POINTS
1.	Every lecture, tutorial, practical engaged, Seminar/Workshop/talk on book review, every hour spent in library, each meeting.	1/4
2.	Every field trip undertaken by the faculty with students	2
3.	Every article written in local magazine/ news paper	10
4.	Every published book review	5
5.	Conduction of workshop/ training.(every 2 hours or part thereof)	2
6.	Every event managed as a team leader / team member.	2
7.	Every material added to the knowledge bank.	2
8.	Coordinator of a committee or annual program.	10
9.	Delivered a key note address at conference.	25
10.	Presented paper/delivered talk at international conference.	25
11.	Presented paper/delivered talk at regional / national conference.	15
12.	Patent generated	50
13.	Consultancy services (value 1 lakh and more)	50
14.	Paper published in research journal with impact factor < 1.	20
15.	Paper published in research journal with impact factor 1 – 2.	30
16.	Paper published in research journal with impact factor > 2.	50
17.	Case / Project development	25
18.	Research Project undertaken (fund 1-5 lakh)	30
19.	Research Project undertaken (fund > 5 – 15 lakh and more)	50
20.	Research Project undertaken (fund > 15 lakh)	70
21.	Text Book Published by recognized publisher (with ISSN)	50
22.	Non-Text Book Published by recognized publisher (with ISSN)	50



- **Teacher's Evaluation (Reform)**

Students Feedback and Observations of IQAC Team

- **Institute's Evaluation (Reform)**

I/C Secretary of CVM and Board of Management

Permanent Affiliation for All programs

Students Evaluation & Learning Outcomes

- Seminar presentation, internal test, viva, assignment, quiz , attendance (30 %) & university exam (70 %)
- Subject Knowledge, Financial Background, Regularity in Class evaluated for Industries Scholarship
- **100 % result , Almost in all programs**
- **Good Placement Records**

Best Practices

Open Source MOODLE based e-Learning Repository

A-VIEW Virtual Class Room

Average 180 working days

No Strike by Students & Staff

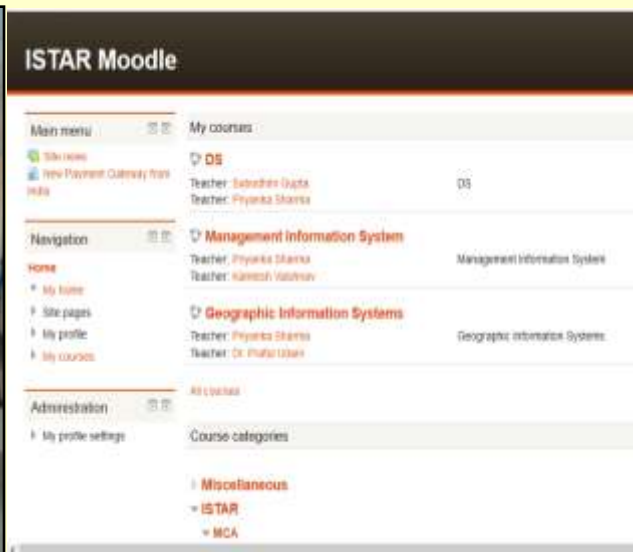
Compulsory in-plant training

Continuous Assessment

Proper Academic Planning

Students encouraged to participate in seminars & conferences

Embedding Desired Graduate Attributes in Students



Research, Consultancy and Extension



Promotion of Research & Incentives

- Research Committee to address issues of research
- Deputation of staff for research presentation in conferences & Seminars
- Faculty members paid 70 % of consultancy charges
- Faculty members paid 50 % of Testing & Analysis charges
- **No Fees for CVM students for Ph.D. Studies (ef. 2014-15)**

Facilities provided for Research Work

- SICART facilities for analysis
- Recurring cost for chemicals, glassware, electricity, water laboratory facilities free of cost
- IT Infrastructure & Internet for Ph.D. student

R & D Resource Mobilization



- ❑ Research Projects Completed : Rs 51,00,000
- ❑ 8 Research Projects Sanctioned : Rs. 25,57,000
- ❑ 19 Research Proposals submitted (2013-14): Rs. 3, 41, 06,000

Consultancy

- ❑ Testing & Analysis services for Industries (2008-2014)
– Revenue generated Rs. 32,00,000/-
- ❑ Consultancy for Industries (2008-2014)
– Revenue generated Rs. 3,25,000/-

Research Publications

Papers Published : 344 National: 34 International: 310	Citations 1185	Range of h index 1- 10	Range of i10 index 1-11	Patents 03
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Research Journal : RESEARCH@ICT , ISSN:0976-5999

International Journal of Information & Computing Technology

PARTICIPATION OF FACULTY MEMBERS IN CONFERENCES / SEMINARS (2009-14)



Sr. No.	Department	Participated in Conference / Seminar
1.	Industrial Chemistry	26
2.	Surface Coating Technology	16
3.	Polymer Science & Technology	07
4.	Information Technology	05
5.	Environmental Science & Technology	47
6.	Organic Chemistry	08
7.	Instrumentation	30
8.	M.C.A.	77
TOTAL		216

Extension Activities



NSS Activities

- Sardar Patel University recognized NSS unit
- Adopted Amod village for Extension (NSS) Activities
- **Two days NSS Camp at Old Age Home , Lambhvel**
- Eye check up & Spiritual Lecture (May 22- 23, 2013)



**Spiritual Lecture
Mr. Mahesh Bhatt,
(BAPS)**



**Eye check up by
Dr. Nishant Patel**



**Lunch Hosted by
ISTAR**

Extension Activities



Sr. No.	Activities	Collaboration with	Participant/ Beneficiary	Place	Year
1	Poster making competition on AIDS	Red ribbon Ahmedabad	10	ISTAR	2014
2	Lecture on AIDS awareness	Red ribbon Ahmedabad	125	Amod	2014
3	Poster competition	Red ribbon Ahmedabad	50	Amod	2014
4	Tree plantation	NSS	25	Amod/ ISTAR	2014
5	Dictionary distribution	NSS	125	Amod	2014
6	Campus cleaning	NSS	100	Amod	2014
7	Medical check up camp	Rotary club, Anand	100	Amod	2013
8	Food Distribution	NSS	25	Lambhvel	2013

Extension Activities



Sr. No.	Activities	Collaborating Agency	Participant/ Beneficiary	Place	Year
9	Thalassemia check up camp	Red cross Ahmadabad	215	ISTAR	2013
10	Eye check up camp	Rotary club, Anand	25	Lambhvel	2013
11	Spiritual Lecture	BAPS	40	Lambhvel	2013
12	Thalassemia check up camp	Red cross Ahmadabad	181	ISTAR	2012
13	Blood donation camp (88 Units)	Gorawala blood bank	88	ISTAR	2012
14	Blood donation camp (70 Units)	Rotary club , Anand	70	ISTAR	2011

Institutional Social Responsibility



Sr. No.	Activities	Place	Year
1	3 Short Term Courses in Association with Employment Bureau, V.V. Nagar	ISTAR	2014
2	Soil Testing	Amod	2013
3	Water resources testing	Amod	2013
4	Class room teaching by students	Amod	2014
5	Ration Distribution (Sudamani Zoli) in association with Rotary Club , Anand	Anand Govt Hospital	2014



One Day ISTAR NSS Camp at Amod Village

Ration Distribution by ISTAR Anand Govt. Hospital

Collaborations



Gujarat Ecological Commission	GUIDE (Bhuj)
GUJCOST	MPCOST (Bhopal)
SPU PG DEPARTMENTS	National Research Center, Japan

GNFC for Corporate Training and Consultancy

Pushkar Paints for Industrial Consultancy

Lupin Limited for scholarship and training

ASC (UGC) for planning & conducting Faculty Development Programs

VR Software Systems for GIS S/W development

2-Days PLC Course Conducted at 5 Sci. Colleges (Ahmedabad & VV Nagar)

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Infrastructure and Learning Resources



Physical Facilities

No.	Particulars	Nos.	No.	Particulars	Nos.
1	Principal's Office	01	15	NSS Office	01
2	Administration Office	01	16	NAAC / IQAC Office	01
3	Conference Room	02	17	Library	01
4	Office Store Room	01	18	Library Reading Room	01
5	Accounts Store Room	01	19	Internet Lab	01
6	Class Room	21	20	Anti-ragging & Women Cell	01
7	Laboratories	19	21	Alumni Cell	01
8	Store Room	09	22	Network Operation Centre	01
9	Boys Room	01	23	Training & Placement Cell	01
10	Girls Rooms	02	24	GTU Control Room	01
11	Canteen	01	25	CVT Room	01
12	Head & Staff Rooms	20	26	Vermi Compost Facility	01
13	Seminar Hall	01	27	Parking Area	
14	Sports Room	01	28	Garden Area	
			29	Fire Extinguisher in all labs	

Boys & Girls Hostel, CVM Sports Complex, Guest House, Staff Quarters, Estate Department



Director's Bungalow



'Girnar' Boys Hostel



'Square' Girls Hostel



Staff Quarter



Gymnasium Hall



Cricket Ground



Basket Ball & Volley Ball Court

Library as Learning Resource



Well equipped with

- Textbooks
- Reference Books
- Encyclopedia
- Standards Books

Sections of Library

- Issue / Return
- Journal / Periodicals Display
- Computer for Online Access
- Reference
- Reading



Library as Learning Resources



Delnet Resources



Delnet
Developing Library Network

UGC-Infonet (N-list, e- resources)



IEEE –e-Journals



IEEE

Xplore

DIGITAL LIBRARY

Online Public Access Catalogue (OPAC)



SOUL 2.0 Library Software

IT Infrastructure



List of IT Infrastructure Facilities

Computer: 300

6 IBM servers

LCD Projector =14

Wi-Fi Router = 6

48 Port Switch =2

24 Port Switch =4

2 KVA UPS = 4

Printer = 22

Scanner = 4

Fax Machine = 1

Photo Copy Machine=2

CCTV Camera = 40

Microsoft License Agreement
Software

Quick Heal Antivirus S/W

MOODLE e-learning Server

Windev S/W Platform for
Mobile, Desktop & WEB
Development

ESRI ArcView GIS

Open Source QGIS

IT Infrastructure



Server Room



Network Room



Class Room with LCD Projector

- **Web Server for 22 CVM colleges and 625 Faculty members**
- **Managing IP Network & Internet connectivity of CVM colleges**
- **Web Hosting and Designing Facility**

- CCTV Camera Surveillance
- 125 mbps bandwidth
- IT R & D lab with Mobile Technology , GIS and IP S/W
- LCD Projector and LAN / Internet Connectivity in Class rooms

IT Infrastructure



- Labs equipped with 300 Networked Computer
- **Wi-Fi Campus** with 24-hr Wi-Fi connectivity
- 10 computer for online access of IEEE journals and DELNET (N-LIST)
- **In-house maintenance of IT Infrastructure**



Laptop Lab



Internet Lab



Biometric System



Wi-Fi Routers (6)

BEST PRACTICES



Network Operation Centre for in-house managing of Websites of 22 CVM colleges and 625 Faculty members

Managing IP Network & Internet connectivity of CVM colleges

Web Hosting and Designing Facility

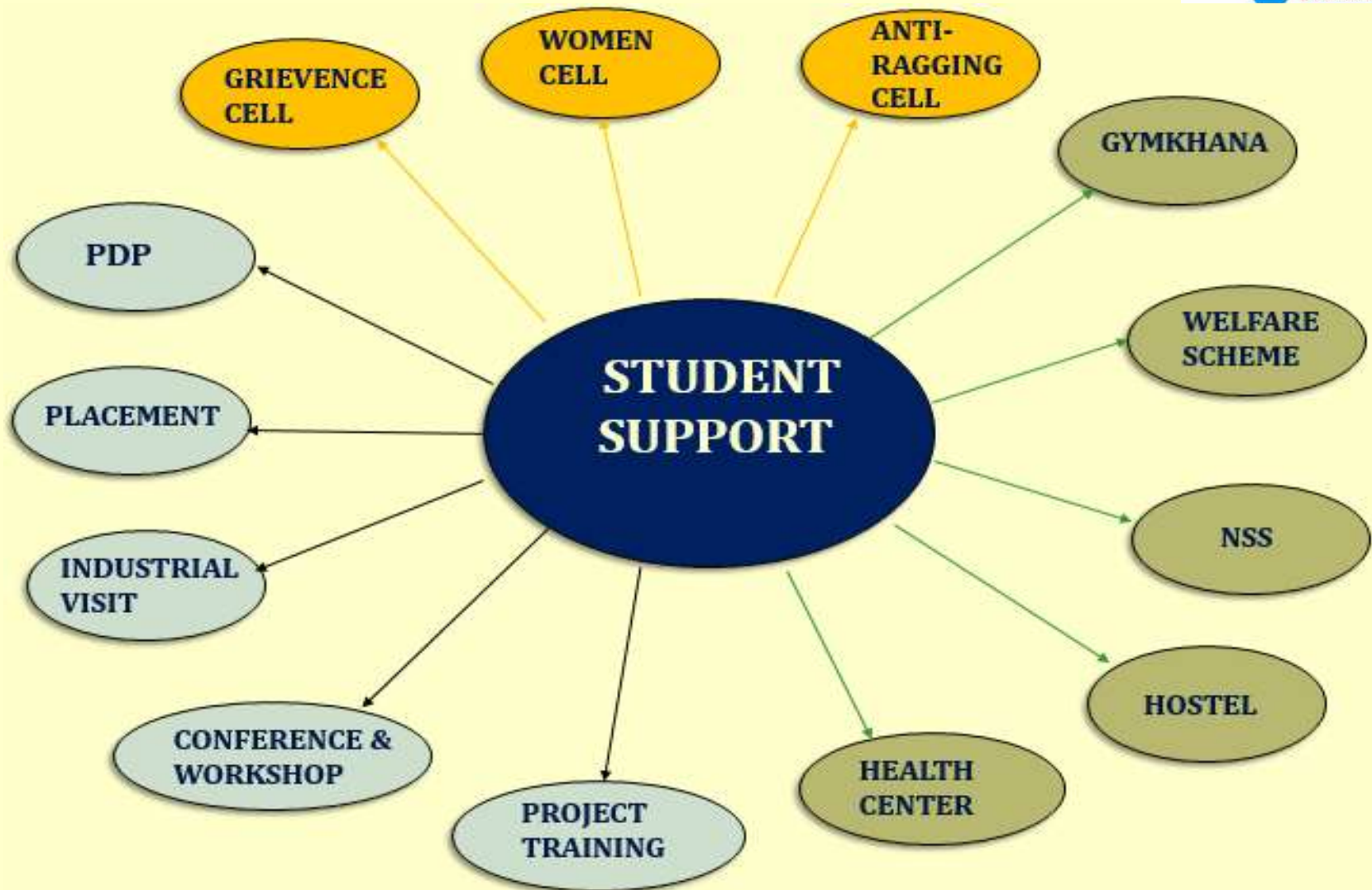
300 + computers against student strength of 850

Campus Wi-Fi Network designed and managed by NOC

In-house maintenance of IT Infrastructure

Well Equipped PST & SCT Labs for Industrial Consultancy

Student Support and Progression



Student Mentoring & Support



- Counseling
- Remedial Classes for weak students
- Language lab and skill development
- Add-on certificate and diploma courses for better employability
- Value education for community orientation through sports activities, cultural events and social outreach programs
- **3 Days Training at SICART for students of IC, EST, PST, SCT, OC , MIHS and INST**
- Sports Kits
- Transport Facility for Industrial Visit & Study Tour
- **Canteen**

University Health Centre Facility

**Placement Support : Nearly 100 % in Chemical Sciences , MIHS
60 -70 % in other departments**

SCHOLARSHIP DETAILS

STATE GOVERNMENT

Sr. No.	Academic Year	Number of Students					Total Amount
		Minority	OBC/SEBC	SC	ST	Total	
1.	2009-10	10	18	04	04	36	Rs. 6,66,740/-
2.	2010-11	11	35	07	09	62	Rs.13,24,366/-
3.	2011-12	00	31	07	13	51	Rs.16,48,130/-
4.	2012-13	12	29	09	06	56	Rs.14,93,920/-
5.	2013-14	17	35	05	08	65	Rs.13,18,320

INDUSTRIES

Sr. No.	Academic Year	Umesh Pathak / Asian Paints / Lupin Ltd. / MISA / Shree Ram Minerals	
1.	2009-10	8 Students	Rs. 2,13,432/-
2.	2010-11	3 Students	Rs.1,04,354/-
3.	2011-12	9 Students	Rs.6,14,414/-
4.	2012-13	12 Students	Rs.4,80,138/-
5.	2013-14	13 Students	Rs.4,92,957/-

MANAGEMENT

Sr. No.	Academic Year	No. of Students	Total Amount
1.	2009-10	13	Rs.55,000/-
2.	2010-11	02	Rs.10,000/-
3.	2011-12	02	Rs. 1,96,000
4.	2012-13	03	Rs.10,600/-
5.	2013-14	03	Rs.14,000/-

STUDENTS PROGRESSION (2009-2014)



(A) Passed GATE Examination -07

(B) Passed NET/SLET :06

(C) M.Sc. / MCA to Ph.D. - 37

(D) M.Sc. to MS – 6 (4 - USA, 2- Canada)

(E) MV to MBA -1 (IIT Kanpur)

(F) Ph.D. to Post. Doc -1 (Eastern Michigan University, USA)

SPORTS FACILITIES

- **Sports Room for Indoor sports activities**
- **Shastri Maidan (Managed by CVM) for outdoor sports**
- **Gymkhana (Managed by CVM)**

University Sports Facilities

Students Participation & Activities



SPORTS

- Table Tennis
- Cricket
- Volley ball
- Foot ball
- Chess

All winners given Medal / Prize during Annual Day Celebration

Student Members in

- Anti-Ragging committee
- IQAC & Library Committee
- Women Cell

CULTURAL ACTIVITIES

- Celebration of festivals
- Technical article writing competition
- Rangoli Competition
- Poster Making Competition
- Kite Cutting Competition
- Essay Writing Competition
- Poem writing competition
- Garba Competition
- Elocution Competition
- Science Talk Competition
- Greeting Card Making Competition
- Best Message (Teacher's Day) Competition
- Ozone day celebration

STUDENTS ACHIEVEMENTS



Year	
09-10	<ul style="list-style-type: none">• Mr. Nayan Solanki was selected in the S. P. U team of Table Tennis to play the Inter University Table Tennis Tournament.
10-11	<ul style="list-style-type: none">• Mr. Nayan Solanki was selected in the S. P. U Table Tennis team to play the Inter University Tournament.• Mr. Anish Singh was selected in the S. P. U Foot Ball team to play the Inter University Tournament.• Mr. Sachinkumar was selected in the S. P. U Chess team to play the Inter University Tournament.
11-12	<ul style="list-style-type: none">▪ ISTAR won the S. P. University Inter Collegiate Table Tennis Tournament.▪ ISTAR remained runners-up in the S. P. University Inter Collegiate Chess Tournament.▪ Mr. Raj Mehta secured second position in Second position in “ NFS Most Wanted Event” of Ignite 2012 at CHARUSET, Changa.▪ Mr. Pranav Vagadiya and Sudhir Patel developed a website for International Journal of MCA Dept.▪ Mr. Vimal Vadher secured Second position in State Level Quiz Competition in Env. & Safety Aspects in Chemical Industries @ D.D.U., Nadiad.

11-12

- Mr. Rushi M. Desai and Mr. Parth Deshpande selected in the S. P. U Table tennis team to play the Inter University Torunament.
- Sachinkumar, Adarsh S. Pillai and Pawan J. Wani selected in the S. P. U Foot Ball team to play the Inter University Tournament.
- Mr. Adarsh S. Pillai secured 3rd position in both 100 m Run and 200 m Run in Atheletics competition organized by the Sardar Patel University.
- ISTAR won the S. P. University Inter Collegiate Table Tennis Tournament.
- The Volley Ball team of ISTAR secured Third position in the Sardar Patel University Inter College Tournament.
- Mr. Parth Deshpande and Mr. Sachin Thakkar were selected in the S. P. U Table Tennis team to play the Inter University Tournament.

13-14

- ISTAR secured first position in SPU inter college chess tournament
- ISTAR secured second position in SPU inter college foot ball tournament
- Mr.Sachin Thaker was selected in SPU table tennis team
- Mr.Krupal Dadhanian & Mr.Nilesh Bhut were selected in SPU Chess team

Best Practices in Students Support

- Maulana Azad Scholarship for Research students
- Industrial Scholarship for PG students

Students in Central
Committee
General Secretary-1

Ladies
Representative-1

Cultural Secretary-2

Sports Secretary-1

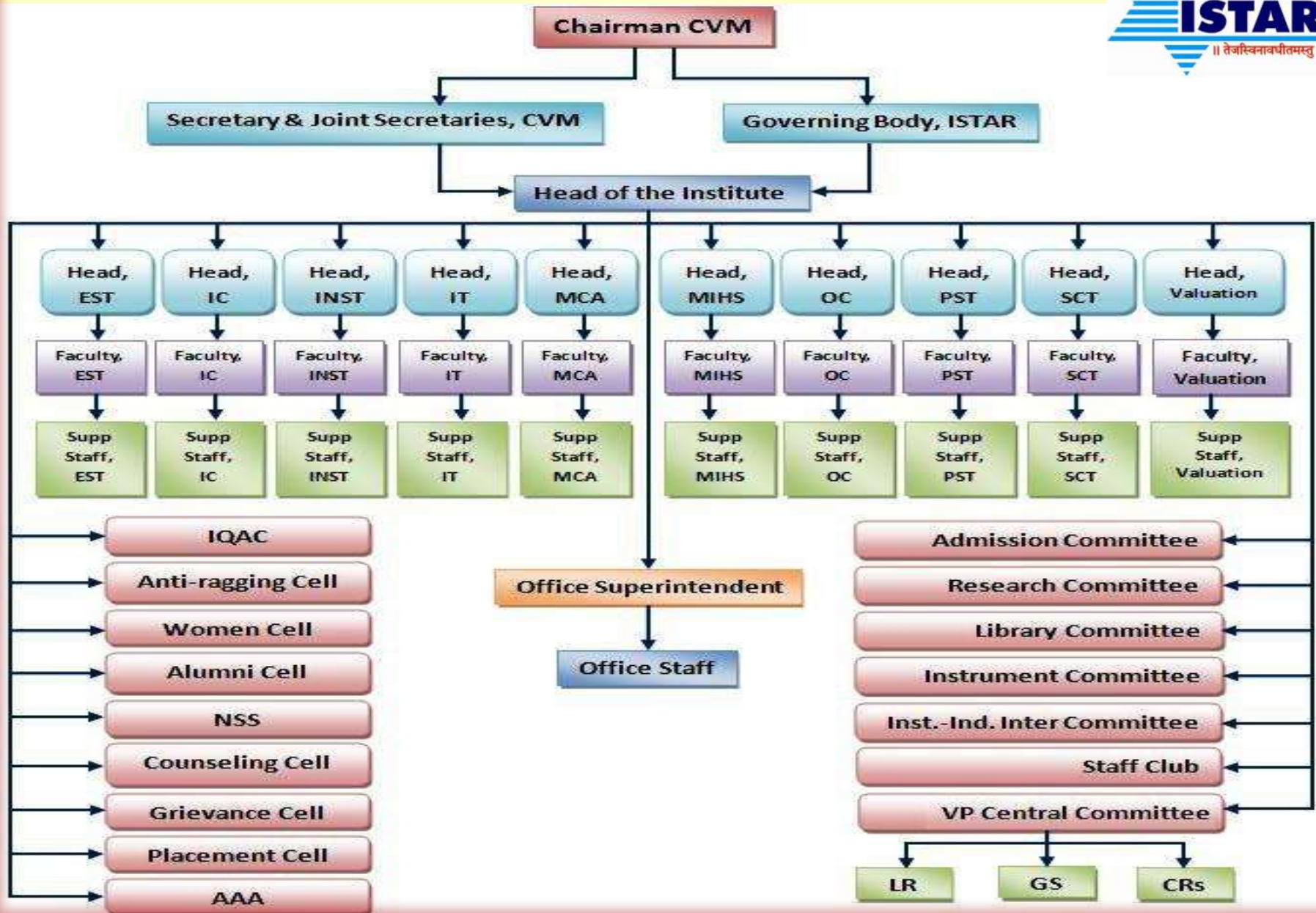
CR from all classes

Publication of
“Galaxy”

Annual Day
Talent Evening



Governance Structure of ISTAR



BOARD OF MANAGEMENT OF ISTAR

Constituted as per the norms of AICTE / UGC



Sr. No.	NAME OF THE MEMBER/NOMINEE
1.	DR. C. L. PATEL (CHAIRMAN)
2.	Prin. S. M. Patel (Member) & Hon. Secretary, CVM
3.	Dr. J. D. Patel (Member) & Hon. I/C Secretary, CVM
4.	Dr. Vithal N. Kamat (Member) & Principal, [MBICT]
5.	Dr. Darshan B. Choksi (Member) & Professor, Department of Computer Science , S P University
6.	Dr. Prashant B. Swadas (Member) & Head, Computer Engineering Department, BVM Engineering College
7.	Nominee of AICTE Regional Office
8.	Nominee of AICTE
9.	Nominee of GTU
10.	VC Nominee , Sardar Patel University
11.	Nominee , of State Government
12.	Nominee Director of Technical Education, Gujarat Government
13.	Dr. P.M. Udani (Member Secretary) & Director, ISTAR
14.	Dr. Priyanka Sharma (Member) & Prof. MCA Department, ISTAR
15.	Dr. Priya Swaminarayan (Member) & HoD , MCA Department, ISTAR

INVITED MEMBERS	
1.	Dr. V.S. Patel, Director, SICART
2.	Dr. F.S. Umrigar, Principal, BVM Engineering College
3.	Dr. R.K. Jain, Principal, AD Patel Institute of Technology
4.	Dr. Himanshu Soni, Principal, GH Patel College of Engineering & Technology
5.	Dr. Bhavesh Dineshbhai Patel, Principal, VP & RPTP Science College
6.	Dr. Basudeb Bakshi, Principal, NV Patel College of Pure & Applied Sciences
7.	Dr. A.K. Saluja, Principal, A.R. College & GH Patel Institute of Pharmacy
8.	Dr. (Mrs.) Harsha V. Patel, I/C Principal, Indukaka-Ipcowala College of Pharmacy
9.	Dr. Vipul Desai, Management Adviser, Charutar Vidya Mandal

Development & Deployment Strategy



- IQAC team & HoDs defines strategy for quality improvement (NAAC Readiness, Feedback & Analysis, Faculty Development)
- Policies implementation after approval of CVM management (Prospective Plan, Career Advancement, Additional Perks)
- Regular reviews of policies and corrective decisions taken
- BoM for reviewing and suggesting Development Strategy
- Regular Staff meetings for defining actions plan
- Purchase Committee , Library Committee , Research Committee, Admission Committee for smooth Functioning of Institute & Reviewing Departments Proposals

Faculty Empowerment



Professional Development

- **Director empowered to purchase equipments up to Rs. 5 Lacs & maintenance up to Rs 50,000**
- 50 % TA and Registration Fess for Conferences supported by ISTAR
- 70 % Consultancy charges paid to faculties
- Duty Leave granted for participating in Seminars/Conferences
- Outcome of Academic Audit used for promotion & incentives
- Freedom for conducting Seminar / Workshop

Welfare Schemes

- Group Insurance of 2 / 1.5 lakh for teaching / non-teaching staff
- CVM Staff Insurance (Premium paid by ISTAR)
- Employee Deposit Linked Insurance (Premium paid by ISTAR)
- Need base Cash Advance to Class III & IV employees
- PF, Gratuity, PL, CL, Medical Leave, Maternity Leave
- Staff Quarters

Measures for Attracting & Retaining Staff

- Appointments strictly as per the norms of SPU & GTU
- All staff paid sixth pay commission salary

Financial Management & Resource Mobilization



Mechanism for effective use of Financial Resources

- Budget prepared & identified sources of earnings & expenditure
- Additional non-recurring expenses approved by Principal & CVM
- Quotations invited and finalized by purchase committee

Established Endowment Fund: Established in 2005

- Current Balance : Rs. 16,69,451
- Staff contribution Rs.1,95,400 (2013-14)

Major Sources of funding

- Fees, Research Projects, Consultancy & Testing

Deficit Management

- CVM Support for Deficit Management & Additional Expenses

HUMAN RESOURCE MANAGEMENT



Standard Rule Book “The CVM Employees Rules, 2010”

Provident Funds

Provident Fund and Insurance Scheme for All Staff Members

Applicable Leave

Casual Leave , Privilege Leave, Half Pay Leave , Commuted Leave

Increase in Dearness Allowance

65% to 72% w.e.f. 01-07-2012

72% to 80% w.e.f. 01-01-2013

80% to 90% w.e.f. 01-11-2013



Innovations & Best Practices

Environment Consciousness

- Reuse of Paper & Staff using pen drives
- Water Harvesting in Industrial Chemistry building
- Vermi Composting
- Ozone Day & Environment Day
- e-Waste Management (opting for buyback scheme)
- Conservation of Energy: ACs set at 25 Celsius
- Environment as Elective in many programs
- Hostel , Residence and Staff Quarters closely located and not much generating carbon foot print
- Solar Water Heater in Hostels, PNG used in Laboratories
- No Smoking & restricted use of mobile



Innovations

- Established GIS, IP and Mobile Technology Lab for development of commercial products / services
- Started corporate training and conducted one for GNFC Officials
- Library Automation
- Established MOODLE based e-Learning Platform
- MIS – Self Developed at ISTAR
- Established A-View Virtual Class Room
- NPTEL Repository & Developing ISTAR MIS
- ICT enabled teaching – learning & Wi-Fi campus
- Prepared 5 Years Perspective Plan

Best Practices



International Training

6 weeks training for 3 MCA students at Laurentian University, CANADA during 15th June to 29th July 2012

4 weeks training for 2 SCT students at Spectram Industry, UAE during May-June, 2014 (Free Visa , Air Travel & Accommodation)

International Exposure for Faculties

Dr. Nirmalkumar, Ms Kunjal Mankad, Dr C J Patel: USA

**Dr Khanna : Rusia , Dr Pankaj : Japan , Mr Nirbhay : Canada
for Professional Development**

Placement Support

- 100 % campus placement in Chemical Sciences, MIHS
- 60-70 % for MV, EST, IT / MCA, INST by dept. linkages

Best Practices



Research Culture : SICART – Recognized R & D Centre

- Industries faith in Testing & Analytical work of ISTAR
- Established R & D Infra. through Research Projects
- Director, Member of Governing Board of CVM Engineering, Pharmacy & Science Institutes and best practices discussed are followed at ISTAR
- CVM Estate Department looking after maintenance of Institute and core academic activities not disturbed
- Students Counseling cell: 2 Senior Faculties as coordinators
- Reading rooms & Internet room facilities
- Supporting UGC Academic Staff College for short term courses

Best Practices



ZNI

Home Send SMS Buy SMS Manage Groups **Templates** Reports CBS Mobile SMS Bulk Email Settings Help

Logout

Home Send SMS

SMS Templates

Create SMS Templates from here to use while sending SMS.

Create a new Template

M.Sc. (IT) ISTAR, V.V.Nagar
www.istar.edu.in
We have high profile
faculty, laptop lab, 100% result
Contact: 02692-234995
Mobile: 9429033108

Create Template

Maximum 160 characters are allowed in the template.

ZNI

Home Send SMS Buy SMS Manage Groups **Reports** CBS Mobile SMS Bulk Email Settings Help

Logout

Activity [Self Logs](#) Search No Search Logs Transactions

Sent Logs (Delivery Reports)

From Date: 30 May 2014
For Next n Days: 1 (including current date)
Show Logs

Display on Screen Download File

5/30/2014 -- 5/31/2014

S.No	Sending Date	Mobile No.	Message	Status
1	5/30/2014 10:34:01 AM	9408599124	Admission Open- H...	F
2	5/30/2014 10:34:01 AM	9428458880	Admission Open- H...	D
3	5/30/2014 10:34:01 AM	9825794443	Admission Open- H...	D
4	5/30/2014 10:34:01 AM	9427914663	Admission Open- H...	D
5	5/30/2014 10:34:01 AM	8140351200	Admission Open- H...	F
6	5/30/2014 10:34:01 AM	9913483367	Admission Open- H...	D



A-VIEW Virtual Class Room IIRS (ISRO) Course

SMS Services: Fees Date, Exam Time Table, Int. Marks, Attendance

SWOC Analysis



Strengths

- Many Unique & High Quality Academic Programs
- Collaboration & MoU with International and National Institutes
- APT Teaching Resources and **300+ Networked Computers**
- SICART Facilities for Research & Analysis
- Impressive Research and Consultancy Work
- R & D lab for EST , Chemical Science & IT
- Good Placement Record
- Strong Support and Guidance from CVM Management

Weaknesses-Issues of Concern

- Quality of the students and their presentation skill
- Students Enrolment in Few Departments



Opportunities

- Start M.Sc. Programs (Geoinformatics , Data Analytics)
- Conduct Courses jointly with ASC, S P University
- Resource mobilization through Consultancy & Corporate Training

Challenges

- Reduce gap between course contents and industry needs
- Reviving Oil, Fats & Waxes Course
- Grooming students for Employability and Entrepreneurship
- Developing communication skills of students

Future Plans



Establish IT & CS Research Center at ISTAR

(CVM has approved during general body and council meeting)

Explore all possible R & D funding after NAAC accreditation
Take-up more Consultancy Work & Corporate Training

Start Following PG Courses

M.Sc. In Geo-informatics

M.Sc. In Data Analytics

Start Following Certificate Courses

Environmental Pollution & Disaster Management

Cyber Security & Networking

Hygiene & Safety in Chemical Industries



THANKS