



SARVAJANIK EDUCATION SOCIETY  
**P. T. SARVAJANIK COLLEGE  
OF SCIENCE, SURAT**



**AFFILIATED TO  
VEER NARMAD SOUTH GUJARAT UNIVERSITY  
SURAT**

**\* AQAR \***

**For the year 2012-2013**



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## Part – A

### 1.Details of the Institution

1.1 Name of the Institution	P. T. Sarvajanic College Of Science, Surat
1.2 Address Line 1	Jawaharlal Nehru Marg
Address Line 2	Athwalines
City/Town	Surat
State	Gujarat
Pin Code	395001
Institution e-mail address	principal@ptscience.org
Contact Nos.	(0261) 2240028
Name of the Head of the Institution:	Dr. Pruthul R. Desai
Tel. No. with STD Code:	(0261) 2240028
Mobile:	09426854713
Name of the IQAC Co-ordinator:	Dr. Anita Bahadur
Mobile:	09825454366
IQAC e-mail address:	anita26p@gmail.com

1.3 NAAC Track ID(For ex. MHCOGN 18879)

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 <sup>st</sup> Cycle	B <sup>++</sup>		2007	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

1.8 AQAR for the year(for example 2010-11)

1.9 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)

- i. AQAR : 2011-12 submitted to NAAC on 13/08/2014
- ii. AQAR : 2010-11 submitted to NAAC on 13/08/2014
- iii. AQAR : 2009-10 submitted to NAAC on 13/08/2014
- iv. AQAR : 2008-09 submitted to NAAC on 13/08/2014
- v. AQAR : 2007-08 submitted to NAAC on 13/08/2014

### 1.10 Institutional Status

University: State  Central  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(e.g. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban Rural  Tribal

Financial Status Grant-in-aid  SC 2(f) UGC

Grant-in-aid + Self Financing  Self-financing

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PhysEdu

TEI (Edu)  Engineering  Health  Science Management

Others (Specify)

-

1.12 Name of the Affiliating University (*for the Colleges*)

Veer Narmad South Gujarat University, Surat

1.13 Special status conferred by Central/ State Government--

UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence  UGC-CPE

DST Star Scheme UGC-C

UGC-Special Assistance Programme DST-F

UGC-Innovative PG programmes Any other (Specify)

UGC-COP Programmes

## 2.IQACComposition and Activities

2.1No. of Teachers	<input type="text" value="06"/>
2.2No. of Administrative/Technical staff	<input type="text" value="01"/>
2.3No. of students	<input type="text" value="01"/>
2.4No. of Management representatives	<input type="text" value="02"/>
2.5No. of Alumni	<input type="text" value="02"/>
2. 6No. of any other stakeholder and community representatives	<input type="text" value="01"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="01"/>
2.8No. of other External Experts	<input type="text" value="-"/>
2.9 Total No. of members	<input type="text" value="15"/>

2.10No. of IQAC meetings held : 03

2.11 No. of meetings with various stakeholders: No.  Faculty   
Non-Teaching Staff  Students  Alumni  Others

2.12Has IQAC received any funding from UGC during the year?Yes  No

If yes, mention the amount

2.13Seminars 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

1. Bridge Course started in the subject of Physics
2. In the beginning of the academic year, an orientation program was organized in which the newly admitted students were informed of the activities carried out in the Institute during the year in various departments and the facilities available in various departments. The presentation was given by the HODs members of the respective department
3. During the academic year, various invited talks were arranged by the Institute in all the subjects. Scientists/research scholars/eminent persons from reputed Institutes/alumni of the college/faculties of other science colleges were invited to deliver their talks and motivate our students

## 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
1. To arrange a Bridge Course in Physics during the summer vacation for the students of the science colleges in the south Gujarat region	1. A Bridge Course in Physics was organized by the Department of Physics during 3 <sup>rd</sup> June, 2013 to 15 <sup>th</sup> June, 2013 wherein 46 students from four different colleges, including ours, participated. It was first of its kind in this region and we are glad to declare that the course got grand success. In the feedback provided by the participants, it was unanimously stated by them that they have highly benefitted and such courses should be regularly arranged. They also added that the duration of the course should be increased. Inspired by the response of the participants, the Department has resolved to arrange it regularly in future as well.
2. The new entrants should be oriented and informed about the institute.	2. After the admissions of the first year students were over, an orientation program was arranged in the

	TaramotiHall of the Institute wherein the faculties of all the departments informed the students about the facilities available in their departments and they also discussed the activities carried out by the department during the year. Again, it was an innovative concept and it helped the new entrants to the Institute in planning their study during the academic year. It also helped them to decide their principal subject as well.
3. To organize invited talks	3. The table showing details on this is given as Annexure III
4. To encourage faculties to write research proposals	4. In the beginning of the academic year, one of our faculty members, Ms Anita Bahadur delivered a talk on “How to prepare research proposal”. Inspired by her talk, a few of our faculty members prepared research proposals and have been proposed to various funding agencies

2.15 Whether the AQAR was placed in statutory body Yes

Management  State Any other

Provide the details of the action taken

It is placed in Local Administrative Body (LAC) of the Institute.

## Part – B

### 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	4	-	-	-
PG	2	-	-	-
UG	5	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	11	-	-	-
Interdisciplinary	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options: CBCS is implemented and the institute offers various combinations of Core and Elective subjects.

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	✓
Trimester	-
Annual	-

##### 1.3 Feedback from stakeholders

Alumni  Parents  Employers  Students

Mode of feedback: Online  AlCo-op  schools (for PEI)

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

NA

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

-

## Criterion – II

### 2. Teaching, Learning and Evaluation:

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
35	03	24	-	08

2.2 No. of permanent faculty with Ph.D.

2.3 No. of Faculty Positions Recruited (R) and Vacant(V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia: (See Annexure I)

No. of Faculty	International level	National level	State level
Attended	01	08	46
Presented papers	08	05	03
Resource Persons	-	01	11

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

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

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

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

2.10 Average percentage of attendance of students

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
F. Y. B. Sc.	341	310				90.90%
S. Y. B. Sc.	409	120	92	60		75.79%
T. Y. B. Sc.	295	112	89	28		74.57%

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

We have regular meetings with our stakeholders and receive feedback from them. Accordingly, we plan for the future.

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	
Staff training conducted by other institutions	
Summer / Winter schools, Workshops, etc.	
Others	Inspire: Innovation in science pursuit for inspired research (Inspire Science Camp)

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	10	18	-	13
Technical Staff	09	05	-	-

## Criterion – III

### 3. Research, Consultancy and Extension

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

1. Dr. Anita Bahadur of the Department of Zoology gave power point presentation on “How to Prepare Research Proposals” for all the faculty members. Inspired by it, some of them have prepared research proposals and submitted them for the approval in front of the competent authorities.
2. The Institute has provided facilities like INFLIBNET, NLIST, e-journals and e-books to the faculty members.
3. Those who wish to attend conferences/seminars/workshops etc., the HOI sanctions their DL and their workload is adjusted in the Department.

#### 3.2 Details regarding major projects:

	Completed	Ongoing	Sanctioned	Submitted
Number		01		
Outlay in Rs. Lakhs		11.2		

#### 3.3 Details regarding minor projects:

	Completed	Ongoing	Sanctioned	Submitted
Number		01		
Outlay in Rs. Lakhs		0.7		

#### 3.4 Details on research publications (See Annexure II):

	International	National	Others
Peer Review Journals			
Non-Peer Review Journals			
e-Journals			
Conference proceedings			

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

Range  Average  h-index  Cites in SCOPUS

#### 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	04	UGC	11,26,800/-	8,02,800/-
Minor Projects	02	UGC	70,000/-	
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	06		11,96,800/-	8,02,800/-

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from : NA

UGC-SAP  ST-FIS    
DPE  scheme/funds

3.9 For colleges Autonomy CPE  Star

INSPIRE CE Any Other (s )

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number					
Sponsoring agencies					

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

3.13 No. of collaborations: International  National An

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency Frd  of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

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
01	01					

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

06

12

3.19 No. of Ph.D. awarded by faculty from the Institution 04

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

JRF   Project Fellows 01 Any other

3.21 No. of students Participated in NSS events:

University level 17

National level  International level

3.22 No. of students participated in NCC events:

University level 167  09

National level  International level

3.23 No. of Awards won in NSS:

University level 04 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 for  01\*

NCC NSS Any other

\* Mathematics Club was established.

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

- Prof. M. B. Mahida of the Department of Chemistry was elected as a Senate member of the University.

## 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	13.02 acres	-		13.02 acres
Class rooms	16			
Laboratories	15			
Seminar Halls				
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)		5.10	UGC and SES	
Others				

#### 4.2 Computerization of administration and library

The library and the college office are computerized

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	934	121937.00	101	8060.00	1035	129997.00
Reference Books	7842	1741424.76	333	64600.00	8175	1806024.76
e-Books						
Journals	126	171425.00	21	43400.00	147	214825.00
e-Journals						
Digital Database						
CD & Video			2	60.00	2	60.00
Back Volumes of Journals					6299	

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	23		09conn ec-tions					
Added								
Total	23		09					

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

- Wi-Fi facility is made available in each classroom
- INFLIBNET is provided for the exposure of research journals and reference books in the form of e-books to the faculty

4.6 Amount spent on maintenance in lakhs :

i) ICT	-nil
ii) Campus Infrastructure and facilities	5,76,258/-
iii) Equipments	nil
iv) Others	nil
<b>Total :</b>	5,76,258/-

### Criterion – V

#### 5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

An orientation program was arranged in the beginning of the academic year for the students to inform them about the Institute, activities taking place in the Institute, facilities available to them etc.

5.2 Efforts made by the institution for tracking the progression

We have regular meetings for the self-assessment and after an open ended discussion with all, we try to improvise.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others (Project Fellow)
1135	82	05	1

(b) No. of students outside the state

1 %\*

\*as per government rules

(c) No. of international students

-

No	%

No	%

Men Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total

604	28	158	167	-	953	706	28	196	205	-	1135
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Demand ratio:3.45:1 Dropout %:15%

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

NA

No. of students beneficiaries

nil

5.5 No. of students qualified in these examinations: Nil

NET  SLET GATE  CAT    
IAS/IPS etc  State PSC  Other  GPS

5.6 Details of student counselling and career guidance:

A student training program was held at TIFAC (Technology Information & Forecasting Assessment Council), Surat. Twenty five students of the college participated in it.

No. of students benefitted

25

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
02	65	18	

5.8 Details of gender sensitization programmes

No programme was conducted

5.9 Students Activities

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

State/ University level National  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

Other event: State/ University level

National level

International level

5.10 Scholarships and Financial Support:

	Number of students	Amount (in Rs.)
Financial support from institution		
Financial support from government	285	22,12,420/-
Financial support from other sources	05	10,000/-
Number of students who received International/ National recognitions	nil	Nil

5.11 Student organised / initiatives Nil

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:

- Mr. Anil Bhayani, a student of M. Sc. Sem IV, Department of Chemistry, was selected as one of the hundred bright students of the country and was invited by the “**Government of India**” to witness the “Republic Day Parade” from the VIP box in January 2013.

**Criterion – VI**

**6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the institution

Vision: To promote experimental scientific pursuit and to provide conducive environment to students, to develop aptitude and to sharpen skills of students to meet the challenges of rapidly changing world and to instil a spirit of camaraderie amongst students and sensitize them regarding their role and duty towards nation building.

Mission: To make the Education of Core Science subjects “Sarvajanic” in true sense to create scientific thrust and to make the students explore new horizons of science through research.

6.2 Does the Institution has a management Information System

-

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

6.3.1 Curriculum Development

NA

6.3.2 Teaching and Learning

All our classrooms are equipped with LCD projectors

6.3.3 Examination and Evaluation

Evaluation is done as per the rules and regulations of VNSGU, Surat

6.3.4 Research and Development

- INFLIBNET is made available to all the faculty members

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Library is fully computerised and the record of the issue and return of books, magazines etc are in available in digital form.
- There is a Library Youth Circle. Various student oriented activities are held under its banner, like career guidance, how to prepare for competitive exams, book reviews etc

6.3.6 Human Resource Management

-

6.3.7 Faculty and Staff recruitment

SES recruits ad hoc staff in the departments as per their requirement and the number of students

6.3.8 Industry Interaction / Collaboration

There was a student's training program by TIFAC, Surat in which twenty five students participated and learnt good lesson about the industrial requirements.

6.3.9 Admission of Students

The admission in the F.Y. B. Sc. is given on the basis of merit prepared by the institute as per the score of the applicant at HSC level while admission in the M. Sc. Part I is given by VNSGU, Surat on the basis of merit prepared by the University.

6.4 Welfare schemes for

Teaching	-
Non teaching	-
Students	Provided by our alumni association

6.5 Total corpus fund generated

nil

6.6 Whether annual financial audit has been done

Yes



No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	GOG		
Administrative	Yes	GOG	Yes	CA

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

For UG Programmes    Yes     No   

For PG Programmes    Yes     No   

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

Examinations are conducted as per the rules and regulations of VNSGU, Surat

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

6.11 Activities and support from the Alumni Association

- The Alumni Association provides scholarships to the needy students
- Some of our alumni provide necessary chemicals to the Institute every year

6.12 Activities and support from the Parent – Teacher Association

-Nil

6.13 Development programmes for support staff

Nil

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

- There is lush green lawn in the campus
- Tree plantation program was arranged
- Waste disposal is done through SMC (Surat Municipal Corporation)

## 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.

A Bridge-Course in Physics was organized during summer vacation of the year wherein students of F. Y. And S. Y. B. Sc. Participated, which is unique of its kind in this region. It has helped them to strengthen their basic understanding of the subject which resulted in the improvement of their performance in the examination as well as in shaping their future.

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

- The plan of action conceived during the beginning of the academic year has been successfully initiated and completed.

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

1. Bridge Course in Physics
2. Orientation of the newly admitted students in the beginning of the academic year

7.4 Contribution to environmental awareness / protection

1. Tree plantation activity is carried out
2. Botanical garden is developed
3. Nest boxes are mounted on the trees of the campus

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

No

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

- The Institute has started Bridge Course in Physics last year. It is planned to start Bridge Courses in other subjects also the next year.
- It is decided to introduce a seminar slot in the regular time table in which seminars from the scientists/ eminent personalities/ scholars / faculty members of the Institute will be arranged

Name \_\_\_\_\_ Name \_\_\_\_\_

\_\_\_\_\_  
Signature of the Coordinator, IQAC    Signature of the Chairperson, IQAC

**Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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## Annexure I

Prof. R. B. Patel of Department of Physics participated in

1. UGC sponsored National Level One Day Seminar on “Enhancing Teaching/Learning through Multimedia & Web 2.0 Technology” organized by The Department of Physics, Maninagar Science College, Ahmedabad at Science City, Ahmedabad on 24<sup>th</sup> March, 2013.

Prof. V. H. Thakkar of Department of Physics participated in

1. “One Week Program on preparing Research Proposal and Capacity Building in Curriculum Development ” organized by KCG held at Sir P. T. Sarvajani College of Science, Surat during 1<sup>st</sup> to 6<sup>th</sup> May, 2013.
2. An NMEICT sponsored workshop on “Virtual labs” organized at SCET, Surat on 2<sup>nd</sup> March, 2013.
3. “1<sup>st</sup> IAPT National Student Symposium on Physics” jointly organized by IAPT and The Department of Physics, Panjab University, Chandigarh at The Department of Physics, Panjab University, Chandigarh during 25<sup>th</sup> to 27<sup>th</sup> February, 2013.
4. UGC sponsored National Level One Day Seminar on “Enhancing Teaching/Learning through Multimedia & Web 2.0 Technology” organized by The Department of Physics, Maninagar Science College, Ahmedabad at Science City, Ahmedabad on 24<sup>th</sup> March, 2013.
5. GUJCOST, Gandhinagar sponsored One Day Seminar on “God Particle Demystified” organized by Department of Physics, B. P. Baria Science Institute, Navsari on 24<sup>th</sup> August, 2013.

Prof. S. A. Sutar of Department of Physics participated in

1. “One Week Program on preparing Research Proposal and Capacity Building in Curriculum Development ” organized by KCG held at Sir P. T. Sarvajani College of Science, Surat during 1<sup>st</sup> to 6<sup>th</sup> May, 2013.
2. An NMEICT sponsored workshop on “Virtual labs” organized at SCET, Surat on 2<sup>nd</sup> March, 2013.

Dr. Shailesh Prajapati Department of Botany

1. Participated and delivered a talk in “Teacher’s training Program” held at Rajpipla, organized by “Gujarat Ecological Commission”.

Prof. A. H. Dholakia of Department of Zoology participated in

1. State level seminar on “Biodiversity & Me” organized by Gujarat State Biodiversity Board, Gandhinagar and VNSGU, Surat on 3<sup>rd</sup> December, 2012.
2. UGC sponsored National Seminar on New Perspectives of Natural Sciences-II at N. V. Patel College of Pure & App. Sci., Vallabh Vidyanagar on 7<sup>th</sup> July, 2012.
3. Regional Science Congress on Science for shaping the future of India at M S University, Baroda during 15<sup>th</sup> and 16<sup>th</sup> September, 2012.
4. One-day training program on Ecosystem Management & Conservation held at Gujarat Ecology Commission, Gandhinagar on 3<sup>rd</sup> October, 2012.
5. Two days’ workshop on designing course labels for zoology by Knowledge Consortium of Gujarat, University Granth Nirman Board, Ahmedabad during 19<sup>th</sup> to 20<sup>th</sup> December, 2012.

6. One-day review workshop on Designing course labels for Zoology organized by KCG, Ahmedabad on 31<sup>st</sup> December, 2012.
7. UGC sponsored one day State level Seminar on Conservation of Biodiversity & Environment: A Challenge held at K. K. Shah JarodwalaManinagar Science College, Ahmedabad on 5<sup>th</sup> January, 2013.
8. 6<sup>th</sup> national Level Science Symposium-2013 on Recent Trends in Science & Technology at Christ College, Rajkot on 20<sup>th</sup> January, 2013.
9. One day workshop on Learning Outcome based course development organized by KCG, LDRP Inst. Of Research & Technology, Gandhinagar on 16<sup>th</sup> February, 2013.
10. GUJCOST sponsored State Level Conference Interdisciplinary Research in Life Science held at Government Science College, Chikhli on 15<sup>th</sup> March, 2013.
11. UGC sponsored National Level one day Seminar on Enhancing Teaching/ Learning through Multimedia & Web 2.0 Technology held at K. K. Shah JarodwalaManinagar Science College, Ahmedabad on 24<sup>th</sup> March, 2013.
12. Gujarat Ecological Commission and Guj. Sec. & Higher Edu. Board, Gandhinagar at Forest Rangers College, Rajpipla on 3<sup>rd</sup> October, 2012.

Prof. D. G. Bhatt of Department of Chemistry participated in

1. Teacher's Training and Capacity Building Programme of Chemistry organized by KCG during 4<sup>th</sup> to 9<sup>th</sup> June, 2012.
2. Teacher's Training and Capacity Building Programme of Chemistry organized by KCG during 11<sup>th</sup> to 16<sup>th</sup> June, 2012.
3. A one-day workshop on High performance polymers held at Navyug Science College on 2<sup>nd</sup> January 2013.

Prof. B. K. Patel of Department of Chemistry participated in

1. A one-day workshop on High performance polymers held at Navyug Science College on 2<sup>nd</sup> January 2013.

Prof. G. S. Tambawala of Department of Chemistry participated in

1. A one-day workshop on High performance polymers held at Navyug Science College on 2<sup>nd</sup> January 2013.

Prof. S. A. Joshi of Department of Chemistry participated in

1. Teacher's Training and Capacity Building Programme of Chemistry organized by KCG during 4<sup>th</sup> to 9<sup>th</sup> June, 2012.
2. Teacher's Training and Capacity Building Programme of Chemistry organized by KCG during 11<sup>th</sup> to 16<sup>th</sup> June, 2012.

Prof. M. B. Mahida of Department of Chemistry participated in

1. Teacher's Training and Capacity Building Programme of Chemistry organized by KCG during 11<sup>th</sup> to 16<sup>th</sup> June, 2012.

Prof. S. P. Vora of Department of Chemistry participated in

1. Teacher's Training and Capacity Building Programme of Chemistry organized by KCG during 11<sup>th</sup> to 16<sup>th</sup> June, 2012.
2. The lecture workshop on Science of Molecular Materials, Electronic & Energy Applications organized by Department of Chemistry, The M. S. University of Baroda, IAS, Bangalore; INSA, Delhi and NAS, Allahabad during 3<sup>rd</sup> to 5<sup>th</sup> October, 2012 at Vadodara.

3. A state level seminar on “High performance polymers” held at Navyug Science College, Surat on 2<sup>nd</sup> January, 2013.
4. “One Week Program on preparing Research Proposal and Capacity Building in Curriculum Development ” organized by KCG held at Sir P. T. Sarvajani College of Science, Surat during 1<sup>st</sup> to 6<sup>th</sup> May, 2013.

Prof. H. B. Gajjar of Department of Chemistry participated in

1. 31<sup>st</sup> Annual Conference of Indian Council of Chemists, held during 26<sup>th</sup> to 28<sup>th</sup> December, 2012 at Saurashtra University, Rajkot.
2. Three-day programme on Preparing Research Proposal, held during 1<sup>st</sup> to 3<sup>rd</sup> May, 2013 jointly organized by KCG and M. T. B. Arts College, Surat.

Prof. K. C. Parmar of Department of Chemistry participated in

1. Teacher’s Training and Capacity Building Programme of Chemistry organized by KCG during 4<sup>th</sup> to 9<sup>th</sup> June, 2012.
2. Teacher’s Training and Capacity Building Programme of Chemistry organized by KCG during 11<sup>th</sup> to 16<sup>th</sup> June, 2012.
3. Seminar on Recent Trends in Chemistry during 27 and 28<sup>th</sup> March, 2012.

Prof. H. D. Desai of Department of Chemistry participated in

1. A state level seminar on “High performance polymers” held at Navyug Science College, Surat on 2<sup>nd</sup> January, 2013.

Prof. M. H. Chaudhri of Department of Chemistry participated in

1. A state level seminar on “High performance polymers” held at Navyug Science College, Surat on 2<sup>nd</sup> January, 2013.

Prof. N. C. Patel of Department of Chemistry participated in

1. A state level seminar on “High performance polymers” held at Navyug Science College, Surat on 2<sup>nd</sup> January, 2013.
2. Teacher’s Training and Capacity Building Programme of Chemistry organized by KCG during 11<sup>th</sup> to 16<sup>th</sup> June, 2012.

Prof. B. M. Patel of Department of Chemistry participated in

1. A one-day seminar on “Prospects of Chemistry in Industry and Academics” organized by the Department of Chemistry, UkaTarsadia University, Bardoli on 18<sup>th</sup> January, 2013.

Prof. J. M. Desai of Department of Mathematics participated in

1. “One Week Program on preparing Research Proposal and Capacity Building in Curriculum Development ” organized by KCG held at Sir P. T. Sarvajani College of Science, Surat during 1<sup>st</sup> to 6<sup>th</sup> May, 2013.

Prof. K. J. Chauhan of Department of Mathematics participated in

1. and delivered a lecture on “Ramanujan’s Magic Square” on the occasion of 125<sup>th</sup> birth anniversary of ShrinivasRamanujan and National Mathematics Day on 22<sup>nd</sup> December, 2012.
2. A workshop on “Proposed syllabus for Mathematics for B. Sc. Sem. V and VI” at Sir P. T. Sarvajani College of Science, Surat on 11<sup>th</sup> March, 2013.
3. A National Level One Day Seminar on “Enhancing Teaching/Learning through multimedia & Web 2.0 technology” on 24<sup>th</sup> March, 2013 conducted by Department of Physics, K. K. Shah JarodwalaManinagar Science College, Ahmedabad at Science City, Ahmedabad.

Prof. D. V. Shah of Department of Mathematics participated in

1. and presented a paper entitled “*Non-existence of GCD property for the generalized tribonacci numbers*” at ‘International Conference on special functions and Symposium on Life and work of SrinivasaRamanujan’ held at SVNIT, Surat during 27<sup>th</sup> to 29<sup>th</sup> June, 2012.
2. and delivered invited talk “A brief history of Indian Mathematics” at the ‘Workshop for the Maths-Science Teachers’ organized by Community Science Centre, Surat on 18<sup>th</sup> July 2012.
3. and delivered invited talk entitled “*The Division Algorithm and the Euclid’s Algorithm*” at the ‘Seminar on Number Theory and Probability’ organized by Vadodara GanitParivar and The M. S. University, Vadodara on 30<sup>th</sup> July, 2012.
4. and delivered invited talk on “*Ramanujan – A photo Gallery*” at the ‘Workshop on Life of SrinivasaRamanujan and his contribution in field of Mathematics’ organized by SVNIT, Surat on 27<sup>th</sup> to 29<sup>th</sup> October, 2012.
5. and worked as resource person and delivered two invited talks entitled “*Mathematical Websites*” and “*Fibonacci Sequences*” during ‘Refresher Course in Mathematical Sciences’ organized by S. P. University, V. V. Nagar on 20<sup>th</sup> November, 2012.
6. and delivered three invited talks entitled “*Ramanujan–Chitravithika*”, “*GanitSamachar –2012*” and “*Glorious Past of Indian Mathematics*” at the ‘49<sup>th</sup> annual conference of Gujarat GanitMandal’ held at DivyaJyotVidhyalaya, Kalawadon during 24 –26 November, 2012.
7. The ‘International Conference on Legacy of Ramanujan’ held at Delhi University, New Delhi during 17<sup>th</sup> to 22<sup>nd</sup> December, 2012.
8. and worked as expert during the ‘Workshop on Common syllabus in Mathematics for students of Gujarat’ organized by KCG, Dept. of Education, Government of Gujarat and GranthNirman Board, Ahmedabad during 1 – 2 January, 2013 and 26<sup>th</sup> February, 2013.
9. ‘One day workshop on learning outcome based course development’ organized by KCG, Dept. of Education, Government of Gujarat held at LDRP Institute of Research and Technology, Gandhinagar on 16<sup>th</sup> February, 2013.
10. and delivered invited talk entitled “*SrinivasaRamanujan – A photo Gallery*” at the ‘National Seminar on Analysis, Geometry and Applications’ held at S. P. University, V. V. Nagar during 7 – 8 March, 2013.
11. and delivered invited talk entitled “*Cryptography*” at the ‘STTP on Application of Mathematics in Real World Problems’ held at SVNIT, Surat during 18<sup>th</sup> to 22<sup>nd</sup> March, 2013.
12. and delivered invited talk entitled “*Mathematics in Real World*” at the ‘ISTE-SRM short term training programme on Application of Mathematics in Real world problems’ held at SVNIT, Surat during 20<sup>th</sup> to 26<sup>th</sup> March, 2013.

Prof. PritiSingaraju of Department of English participated in

1. UGC National seminar on “Narrating Childhood: Indian Literary contexts, organized by the Department of English, VNSGU, Surat during 6<sup>th</sup> and 7<sup>th</sup> February, 2013.
2. Training and capability programme of KCG, organized by J. Z. Shah & H. P. Commerce College, Amroli, Surat during 11<sup>th</sup> to 13<sup>th</sup> October, 2012.

3. Training and capability building programme of KCG, organized by M. T. B. Arts College, Surat during 1<sup>st</sup> to 3<sup>rd</sup> May, 2013.

## Annexure II

Prof. Anita Bahadur of Department of Zoology

1. PEO-PPO based star-block copolymer T904 as pH responsive nanocarriers for quercetin: Solubilization and release study, **European Polymer Journal**, **49 (1), 12–21, (2013). IF 3.10**
2. Behavioural and histopathological effects of azo dyes on kidney and gill of *Labeorohita* fingerlings, **Journal of Environmental Biology**, **34, 147-152, (2013). Impact factor 0.7**

Prof. S. P. Vora of Department of Chemistry

1. Ethanol-Assisted, Few Nanometer Water-In-Ionic Liquid Reverse Micelle Formation by a Zwitter ionic Surfactant. **Chemistry A European Journal**. Volume 18, Issue 39, September 24, 2012, Pages: 12213–12217. IF-5.925

Prof. K. C. Parmar of Department of Chemistry

1. Ring opening of activated cyclopropane with NIS/NaN<sub>3</sub>: Synthesis of C-1 linked pseudodisaccharides  
S. D. Haveli, S. Roy, VibhaGautan, **Ketan C. Parmar** and S. Chandrasekaran  
**Tetrahedron**, **2013, Vol-69, issue-52, 11138-11143**
2. Syntheses, Spectral and microbial studies of some novel schiff base derivatives of 2-amino pyrimidine  
**K. C. Parmar**, J. J Vora and S. B. Vasava

**Journal of Chemical and Pharmaceutical Research**, **2013, Vol-5, Issue-9, page-222-226**

Prof. N. C. Patel of Department of Chemistry

1. Nickel as an extractive spectrophotometric reagents of p- chlorobenzaldehyde – 4- (2' carboxy-5'-sulphophenyl) -3- thosemicarbazone N. C. PATEL AND bhaveshpatel  
ISSN 0975.413X Der PharmaChemica 2013  
CODEN (USA) PCHHAX 5(2) 193-198
2. p- chloroacetophenone – 4- (2' carboxy-5'-sulphophenyl) -3- thosemicarbazone as an extractive spectrophotometric reagents for nickel bhaveshpatel and n.c.patelg.m. malek  
ISSN 2249-2119 vol. 2(2)2013 pp 209-213 Internat J of Chem
3. p- chloroacetophenone – 4- (2' carboxy-5'-sulphophenyl) -3- thosemicarbazone (p-CACST)as a spectrophotometric reagents for copper n.c.patel and bhaveshpatel g  
ISSN 2319-7099 internatJofChem Application vol. 2 issue 2 page. 50-58.

Prof. K. J. Chauhan of Department of Mathematics paper publications in

**Peer Reviewed Journals: (National)**

1. “The Similarity solution of Diffusion equation using a technique of infinitesimal transformations of groups”, *Journal of Science*-Vol. 1, Issue–2, Jan.–Feb.–2013.

2. "Use of the technique of infinitesimal transformations of groups for finding the similarity solution of heat equation", Journal of Science-Vol. 1, Issue-3, Sep.-Oct.-2013.

**Peer Reviewed Journals: (International)**

1. "The Similarity solutions of concentration dependent Diffusion equation", International Journal of Advances in Applied Mathematics and Mechanics-Vol. 1, Issue-2, Nov.-2013.
2. "The Similarity Solution of longitudinal dispersion phenomenon of miscible fluids in porous media", International Journal of Advances in Applied Mathematics and Mechanics-Vol. 1, Issue-3, March-2014.

Prof. Dr. ShaileshPrajapati of Department of Botany

1. "Conservation of over exploited medicinal plants of Gujarat" published in the journal ofEcobiotechnology, Vol.4(2),242-244, (2012) and
2. "Physico chemical property of Wear cum Cause way of Tapti river, Surat" published in the journal of Bioscience Guardian. Vol. 2(1), 163-166, (2012) the research journals of National Level

Prof. D. V. Shah of Department of Mathematics

**Non-Peer Reviewed Journals:** (In state level Gujarati journal *Suganitam*)

[ISSN 0971-6475]

1. *PushtakParichay*: Suganitam, Vol. 50, No.4, July-Aug. 2012, 110 – 111.

**Annexure III**

No.	Date/ Year	Name of the Guest Lecturer	Department	Topic
1	03-07- 2012	<b>Prof. RishikeshVaidya</b> BITS, Pilani	Physics	Micro and Macro- Cosm
2	03-07- 2012	<b>Prof. KausarVaidya</b> BITS, Pilani	Physics	Snapshots from Astro- world
3	13-07- 2012	<b>Prof. Sanjay Mishra</b> Memphis University, USA	Physics	Career in Physics
4	27-07- 2012	<b>Mr. BhavinShukla</b> Software Architect	Physics	Motivation
5	04-08- 2012	<b>Prof. EknathGhate</b> TIFR, Mumbai	Mathematics	The Tau of Ramanujan
6	26-11- 2012	<b>Prof. M. Barma</b> Director, TIFR, Mumbai	Physics	Key note address in Inspire Science Camp
7	26-11- 2012	<b>Dr. BrijmohanThakore</b> Professor of Physics, S. P. University, Vallabh Vidyanagar	Physics	Inspire Science Camp

8	27-11-2012	<b>Dr. Deepak Modi</b> Scientist, NIRRH (ICMR), Mumbai	Biology	Inspire Science Camp
9	27-11-2012	<b>Prof. UrjitYajnik</b> Professor of Physics, IIT, Mumbai	Physics	Inspire Science Camp
10	28-11-2012	<b>Prof. MayankVahia</b> TIFR, Mumbai	Physics	Inspire Science Camp
11	28-11-2012	<b>Dr. D. V. Prabhu</b> Wilson College, Mumbai	Chemistry	Inspire Science Camp
12	29-11-2012	<b>Dr. P. C. Mankodi</b> Professor of Zoology, M.S. University, Vadodara	Zoology	Inspire Science Camp
13	29-11-2012	<b>Dr. MinooParabia</b> Retd. Professor of Bioscience, VNSGU, Surat.	Bioscience	Inspire Science Camp
14	30-11-2012	<b>Prof. J. K. Verma</b> Professor of Mathematics, IIT, Mumbai	Mathematics	Inspire Science Camp
15	30-11-2012	<b>Prof. Mrs. ChitraNatarajan</b> HBCSE,Mumbai	Science Education	Inspire Science Camp
16	25-01-2013	<b>Prof. S. Kailas</b> BARC, Mumbai.	Physics	High Energy Particle Accelerators
17	06-02-2013	<b>Prof. KileenMahajan</b> Asso. Prof., Narmada College, Bharuch.	Physics	1. Physics in Everyday Life 2. Carrier after B.Sc.-Physics
18	22-01-2013	<b>Prof. B. B. Kayastha</b> Retd. Prof., Mathematics Department, Sir P.T.Sarv. College of Science, Surat.	Mathematics	RAMTA RAMTA GANIT
19	31-01-2013	<b>Dr. ArunVaidya</b> Retd. Head, Mathematics Department, Gujarat University, Amdavad.	Mathematics	Mathematics in Everyday Life

