



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



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

**\* AQAR \***

**For the year 2011-2012**



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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	<a href="mailto:principal@ptsience.org">principal@ptsience.org</a>
Contact Nos.	(0261) 2240028
Name of the Head of the Institution:	Dr. G. C. Desai
Tel. No. with STD Code:	(0261) 2240028
Mobile:	09924103773
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 : 2010-11 submitted to NAAC on 13/08/2014
- ii. AQAR : 2009-10 submitted to NAAC on 13/08/2014
- iii. AQAR : 2008-09 submitted to NAAC on 13/08/2014
- iv. AQAR : 2007-08 submitted to NAAC on 13/08/2014

### 1.10 Institutional Status

University State Central  med  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  AICTE 2(f)  UGC    
 Grant-in-aid + Self Financing  Totally Self-financing

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys.)    
 TEI (Edu)  Engineering  Health Science  Management   
 Others (Specify)

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

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  AICTE-CPE   
 DST Star Scheme  UGC-CE   
 UGC-Special Assistance Programme    
 UGC-Innovative PG programmes  Any other (*Specify*)   
 UGC-COP Programmes

**2.IQAC Composition and Activities**

2.1 No. of Teachers   
 2.2 No. of Administrative/Technical staff   
 2.3 No. of students   
 2.4 No. of Management representatives   
 2.5 No. of Alumni   
 2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held :

2.11 No. of meetings with various stakeholders: No.

Non-Teaching Staff  Students  Alumni  Others

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos.  International  National  State  Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

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

\* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes

Management  State  Any other

Provide the details of the action taken

## 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
Ph. D.	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 in the First Year. Our institute offers all the science subjects as the core subjects. So the students have enough number of choices in their subject selection. The electives and others are decided by VNSGU, Surat.

##### (ii) Pattern of programmes:

~~Semester~~      ≠      Number of programmes

##### 1.3 Feedback from stakeholders\*

Alumni             Employers         
*(On all aspects)*

Mode of feedback: Online       alCo-oper       schools (for PEI)

**N. B. :** We don't have any provision for getting feedback from the stakeholders.

*\*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.

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
33	07	25		01

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
01*								01	

\*Recruited as “AdhyapakSahayak” by GOG

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	08	06	72
Presented papers	06	14	04
Resource Persons	01	01	06

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

Multimedia technology was adopted and implemented

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 82.26 %

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.	352	38		104	23	66.50%
S. Y. B. Sc.	298		107	86	15	76.10%
T. Y. B. Sc.	299		158	95	08	84.57%

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

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	01
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	-

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	13	15		13
Technical Staff	11	3		-

### Criterion – III

#### 3. Research, Consultancy and Extension

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

nil

##### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		01	01	
Outlay in Rs. Lakhs		6.65	11.27	

##### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number		04		
Outlay in Rs. Lakhs		3.6		

##### 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  Nos. 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	03	UGC	6,65,800/-	
Minor Projects	02	UGC	50,000/-	
	02		1,90,000/-	
	02		50,000/-	
	02		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):- Inspire: innovation in Science Pursuit for inspired Research	03	DST, Delhi	Rs. 2,50,000/-	
Total	10		Rs. 12,75,800/-	

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  CAS  FIST

DPEDBT S  /funds

3.9 For colleges: Autonomy  PE D  r Scheme

INSPIRE CE Any  specify

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 A  er

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency Fr  nagement 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

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

06
14

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)

JRFSR 

-
---

-
---

 Project Fellows 

-
---

 Any other 

-
---

3.21 No. of students Participated in NSS events:

University level	24	level	01
National level	-	International level	-

3.22 No. of students participated in NCC events:

University level	78	level	-
National level	-	International level	-

3.23 No. of Awards won in NSS:

University level	02	State level	01
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	-	-
NCC	NSS	Any other	-

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

- Prof. K. C. Desai served as the organizing secretary of “International Congress on Environmental Research – 2011” held at SVNIT, Surat in December, 2011. He also rendered his services as a member of some Local Inquiry Committees of VNSGU, Surat.
- Programs are regularly arranged under “Library youth Circle” in which the students are guided in various fields like preparing for competitive exams, future options after UG and PG etc.
- Prof. D. M. Patel was appointed as an assistant coordinator of IGNOU study centre, Surat.

## 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				
Laboratories				
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)		7.22	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	734	107827.00	200	14110.00	934	121937.00
Reference Books	7455	1648877.99	387	92546.77	7842	1741424.76
e-Books						
Journals	105	135309.00	21	36116.00	126	171425.00
e-Journals						
Digital Database						
CD & Video			2	60.00	2	60.00
Back volume of journals					6299	

#### 4.4 Technology up gradation (overall):

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	09		09 connections					
Added	14							
Total	23		09					

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

NIL

4.6 Amount spent on maintenance in lakhs :

i) ICT	Nil
ii) Campus Infrastructure and facilities	3.8 approx
iii) Equipments	Nil
iv) Others	Nil
<b>Total :</b>	3.8 approx

**Criterion – V**

**5. Student Support and Progression**

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

-

5.2 Efforts made by the institution for tracking the progression

-

5.3 (a) Total Number of

UG	PG	Ph. D.	Others	students
953	75	14	04	

(b) No. of students outside the state

--

(c) No. of international students

-
---

No	%

No	%

Men Women

General SC ST L O P H A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Total General SC ST L O P H A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Total  
 Physically Challenged Physically Challenged

Demand ratio 4.82:1 Dropout %:38 % at F. Y. B. Sc.

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

NA

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	1	NET GATE	-	NET	-	-
IAS/IPS etc	-	State PSC	-	Others	-	GPSC

5.6 Details of student counselling and career guidance

Mr. NareshbhaiTogadiya from DILR provided guidance to the students on GPSC examination

No. of students benefitted

30

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
01	10	02

5.8 Details of gender sensitization programmes

Nil

5.9 Students Activities

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

State/ University level National level 370 International level 55 -

No. of students participated in cultural events

State/ University level 28 National level - International level -

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

Sports :	State/ University level	05	National level	-	International level	-
	Cultural: State/ University level	06	National level	-	International level	-
	Other events : State/ University level	03	National level	-	International level	-

### 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution		
Financial support from government	284	14,58,377/-
Financial support from other sources (Dr. K. C. Desai Education Trust)		40,000/-
Number of students who received International/ National recognitions		

### 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:

- Ms Pandya Padmini U. won gold medal in the “Open Gujarat Association Tournament” in the pistol shooting event.
- Ms Italiya Taronish won silver medal in the “Khel Mahakumbh” organized by Government of Gujarat”.
- Ms Bhatade Keyuri S. stood second in the story writing competition at the state-level.
- Mr Katariya Bhavesh D. won different prizes at zonal, university and district levels in Elocution competitions.
- Mr Kevadiya Kaushik B. won different prizes at zonal, university and district levels in Essay writing competitions.

## 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 for students to develop aptitude and to sharpen skills of the students to meet the challenges of rapidly changing world.

To instil a spirit of camaraderie amongst the students and to 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

No

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

-

6.3.3 Examination and Evaluation

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

6.3.4 Research and Development

-

6.3.5 Library, ICT and physical infrastructure / instrumentation

-

6.3.6 Human Resource Management

-

6.3.7 Faculty and Staff recruitment

NA

6.3.8 Industry Interaction / Collaboration

-

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	-

6.5 Total corpus fund generated

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	No			
Administrative	No		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?

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

6.11 Activities and support from the Alumni Association

6.12 Activities and support from the Parent – Teacher Association

6.13 Development programmes for support staff

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

## 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.

No specific innovations introduced

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

-

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

-

7.4 Contribution to environmental awareness / protection

-

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

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

\*\*\*\*\*

## Annexure I

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

1. One-day training programme on “Choice Based Credit System” jointly organized by KCG, Gandhinagar and VNSGU, Surat on 10<sup>th</sup> July, 2011.
2. Two weeks ISTE workshop on “Basic Electronics” conducted by IIT, Bombay from 28<sup>th</sup> June to 8<sup>th</sup> July, 2011.

Prof. S. R. Desai of Department of Physics participated in

1. UGC sponsored state level workshop on “Recent Trends in Theoretical Physics” during 24<sup>th</sup> to 25<sup>th</sup> January, 2012.

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

1. One-day orientation programme NSS programme officer at Shree J. P. Arts and Science College, Bharuch on 18<sup>th</sup> September, 2011.
2. A Voluntary Blood Donation and Aids Awareness workshop held at VNSGU, Surat 5<sup>th</sup> March, 2012.
3. “XXXV Refresher Course in Experimental Physics” sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, The National Academy Of Sciences, India and GUJCOST, Gandhinagar and jointly organized by The Department of Physics, St. Xavier’s College, Ahmedabad and Institute for Plasma Research, Gandhinagar during 15<sup>th</sup> February to 1<sup>st</sup> March, 2012.
4. Two-day Workshop on “Plasma Physics Teaching at Undergraduate Level ” organized by The Department of Physics, Maninagar Science College, Ahmedabad 29<sup>th</sup> to 30<sup>th</sup> September, 2011.
3. One-day Training Program on “Choice Based Credit System” jointly organized by KCG, Gandhinagar and VNSGU, Surat on 10<sup>th</sup> July, 2011.

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

1. One-day training programme on “Choice Based Credit System” jointly organized by KCG, Gandhinagar and VNSGU, Surat on 10<sup>th</sup> July, 2011.
2. Two weeks ISTE workshop on “Basic Electronics” conducted by IIT, Bombay from 28<sup>th</sup> June to 8<sup>th</sup> July, 2011.

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

1. National Symposium on Status, Challenges & Opportunities in Life Sciences, ARIBAS, Vallabh Vidyanagar on 10<sup>th</sup> September, 2011
2. JERAD – ICER-2011, International Conference on environmental research, SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011. He also served as a Coordinator, Chairperson, Co-chairperson in Life Science Section.
3. National Seminar on Birds of Gujarat- Present Status & Future Scenario at NAU, Navsari, 22 January, 2012.

Prof. N. R. Solanki of Department of Zoology participated in

1. One-day programme on “Choice Based Credit System” held on 10<sup>th</sup> July, 2011 at VNSGU, Surat.
2. National seminar on “Birds of Gujarat present status and future scenario” on 22<sup>nd</sup> January, 2012.

Prof. Anita Bahadur of Department of Zoology participated in

1. Immobilization of urease on polysaccharide supports modified chitosan and alginate beads” at “International Conference POLYCHAR-19” at Kathmandu, Nepal during 20<sup>th</sup> to 24<sup>th</sup> March, 2011.

Prof. G. C. Desai 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. One-day programme on “Choice Based Credit System” held on 10<sup>th</sup> July, 2011 at VNSGU, Surat.
3. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
4. 13<sup>th</sup> National conference of association of Indian college principals during 18<sup>th</sup> to 20<sup>th</sup> February, 2012.

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

1. One-day programme on “Choice Based Credit System” held on 10<sup>th</sup> July, 2011 at VNSGU, Surat.
2. Recent Advance in Functional materials Processing and Application.
3. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
4. 4<sup>th</sup> International congress of environmental research (ICER-2011) held at SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011.

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

1. 4<sup>th</sup> International congress of environmental research (ICER-2011) held at SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011.
2. State level workshop on recent advances in functional materials processing and application on 24<sup>th</sup> December 2011.
3. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
4. Seminar on Recent Trends in nuclear chemistry on 4<sup>th</sup> December, 2011.

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

1. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
2. 4<sup>th</sup> International congress of environmental research (ICER-2011) held at SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011.
3. State level workshop on recent advances in functional materials processing and application on 24<sup>th</sup> December 2011.
4. Seminar on Recent Trends in nuclear chemistry on 4<sup>th</sup> December, 2011.

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

1. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
2. Seminar on “Fundamental of spectroscopic techniques” on 8<sup>th</sup> October, 2011.
3. 4<sup>th</sup> International congress of environmental research (ICER-2011) held at SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011.

4. State level workshop on recent advances in functional materials processing and application on 24<sup>th</sup> December 2011.
5. Chemistry as a future career at UkaTarsadia University, Bardoli on 3<sup>rd</sup> March, 2012.

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

1. One-day Training Program on “Choice Based Credit System” jointly organized by KCG, Gandhinagar and VNSGU, Surat on 10<sup>th</sup> July, 2011.
2. One-day orientation programme NSS programme officer at Shree J. P. Arts and Science College, Bharuch on 18<sup>th</sup> September, 2011.
3. Chemistry as a future career at UkaTarsadia University, Bardoli on 3<sup>rd</sup> March, 2012.
4. A Workshop on Swami Vivekanand Birthday Anniversary Youth programme for Blood Donation and Aids Awareness at VNSGU, Surat on 5<sup>th</sup> March, 2012.
5. Recent trends in chemistry Department of Chemistry held at VNSGU, Surat during 27<sup>th</sup> to 28<sup>th</sup> March, 2012.

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

1. One-day Training Program on “Choice Based Credit System” jointly organized by KCG, Gandhinagar and VNSGU, Surat on 10<sup>th</sup> July, 2011.
2. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
3. Seminar on “Fundamental of spectroscopic techniques” on 8<sup>th</sup> October, 2011.
4. State level workshop on recent advances in functional materials processing and application on 24<sup>th</sup> December 2011.

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

1. One-day Training Program on “Choice Based Credit System” jointly organized by KCG, Gandhinagar and VNSGU, Surat on 10<sup>th</sup> July, 2011.
2. Seminar on recent trends and Challenges in dyestuff Industries on 4<sup>th</sup> September, 2011.
3. A state level seminar held at Navyug Science College, Surat on 24<sup>th</sup> December, 2011.
4. A state level seminar at Department of Chemistry, VNSGU, Surat during 27<sup>th</sup> and 28<sup>th</sup> March, 2012.
5. Teacher’s training and capacity building programme by KCG held at Sir P. T. Sarvajani College of Science, Surat during 3<sup>rd</sup> to 16<sup>th</sup> June, 2012.

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

1. One-day programme on “Choice Based Credit System” held on 10<sup>th</sup> July, 2011 at VNSGU, Surat.
2. One-day state level seminar on “Recent Trends and Challenges in Dystuff Industries” held on 4<sup>th</sup> September, 2011 at B. K. M. Science College, Valsad.
3. 4<sup>th</sup> International Congress of Environmental Research, held during 15<sup>th</sup> to 17<sup>th</sup> December, 2011 at SVNIT, Surat.
4. UGC sponsored state level workshop on “Recent Advances in Functional Materials: Processing and Applications” held on 24<sup>th</sup> December, 2011 at Navyug Science College, Surat.

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

1. One-day orientation programme NSS programme officer at Shree J. P. Arts and Science College, Bharuch on 18<sup>th</sup> September, 2011.
2. Workshop on Choice Based Credit System (CBCS) at VNSGU, Surat on 10<sup>th</sup> July, 2011.
3. A six-day workshop on “Teachers’ Training & Capacity Building Programme organized by KCG at PanditDeendayal Petroleum University, Gandhinagar from 20<sup>th</sup> June to 25<sup>th</sup> June, 2011.
4. A state level seminar held at B. K. M. Science College, Valsad. 4<sup>th</sup> September, 2011.
5. A state level seminar held at The Patidar Gin Science College, Bardoli on 4<sup>th</sup> November, 2011.
6. A state level seminar held at Navyug Science College, Surat on 24<sup>th</sup> December, 2011.
7. A state level seminar held at UkaTarsadia University, Bardoli on 3<sup>rd</sup> March, 2012.
8. A Voluntary Blood Donation and Aids Awareness workshop held at VNSGU, Surat 5<sup>th</sup> March, 2012.
9. A state level seminar at Department of Chemistry, VNSGU, Surat during 27<sup>th</sup> and 28<sup>th</sup> March, 2012.
10. Teacher’s training and capacity building programme by KCG held at Sir P. T. Sarvajani College of Science, Surat during 3<sup>rd</sup> to 16<sup>th</sup> June, 2012.

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

1. Workshop on Choice Based Credit System (CBCS) at VNSGU, Surat on 10<sup>th</sup> July, 2011.
2. A state level seminar held at B. K. M. Science College, Valsad. 4<sup>th</sup> September, 2011.
3. A state level seminar held at Navyug Science College, Surat on 24<sup>th</sup> December, 2011.
4. A state level seminar held at UkaTarsadia University, Bardoli on 3<sup>rd</sup> March, 2012.
5. A state level seminar at Department of Chemistry, VNSGU, Surat during 27<sup>th</sup> and 28<sup>th</sup> March, 2012.
6. Teacher’s training and capacity building programme by KCG held at Sir P. T. Sarvajani College of Science, Surat during 3<sup>rd</sup> to 16<sup>th</sup> June, 2012.

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

1. A six-day workshop on “Teachers’ Training & Capacity Building Programme organized by KCG at PanditDeendayal Petroleum University, Gandhinagar from 20<sup>th</sup> June to 25<sup>th</sup> June, 2011.
2. One-day state level seminar on “Recent Trends and Challenges in Dystuff Industries” held on 4<sup>th</sup> September, 2011 at B. K. M. Science College, Valsad.

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

1. Six-day workshop on “Teachers’ Training & Capacity Building Programme organized by KCG at PanditDeendayal Petroleum University, Gandhinagar from 20<sup>th</sup> June to 25<sup>th</sup> June, 2011.

2. A one-day state level seminar on Recent Trends and Challenges in Dyestuff Industries organized by the Department of Chemistry, B. K. M. Science College, Valsad on 4<sup>th</sup> September, 2011.
3. A one-day seminar on Chemistry as a Future Career organized by the Department of Chemistry, UkaTarsadia University on 3<sup>rd</sup> March, 2012.

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

1. 'Training program of Choice based Credit System' organized by KCG, Gandhinagar held at VNSG University, Surat on 10<sup>th</sup> July 2011.
2. and participated in "Panel Discussion" at the 'National Conference on Mathematics Education – Trends and Challenges' organized by University of Hyderabad during 19 – 21 August, 2011.
3. and delivered 2 invited talks entitled "*Cryptography*" and "*Fibonacci Numbers in Nature*" at the 'Lecture series on Number Theory' held at SVNIT, Surat during 3 – 4 September, 2011.
4. and delivered invited talk entitled "*GanitSamachar - 2011*" at the '48<sup>th</sup> Annual Conference of Gujarat GanitMandal' held at Shri. AmreliJillaVidhyaSabha, Amreli during 10 – 12 November, 2011.
5. and worked as resource person and delivered invited talk entitled "*Differential Equations*" in 'Training and Capacity building Programme' organized by KCG, Education Department, Govt. of Gujarat held at Ahmedabad Management Association, Ahmedabad during 5<sup>th</sup> to 10<sup>th</sup> December, 2011.
6. 'State level workshop on MATHEMATICA software' organized by V. S. Patel College of Arts and Science, Bilimora during 11 – 12 December, 2011.
7. and presented a paper entitled "*Extension of Golden section using division of a line segment*" at 'International Conference of International Academy of Physical Sciences' organized by Ministry of Earth Science held at SVNIT, Surat during 22<sup>nd</sup> to 24<sup>th</sup> December, 2011.
8. and delivered invited talk as well as presented poster entitled "*Gujarat GanitMandal: A Profile*" at the 'Conference on National Initiative in Mathematics Education (Western Region)' organized by National Board of Higher mathematics and Indian Institute of Science Education and Research (IISER) held at IISER, Pune during 26<sup>th</sup> to 28<sup>th</sup> December, 2011.
9. and worked as resource person and delivered two invited talks entitled "*Differential Equations*" and "*Conic Sections*" at the 'Capacity building cell crash workshop for training Biotechnology students for national competitive examination' organized by Gujarat State Biotechnology Mission and DST, Government of Gujarat held at Department of Biotechnology, VNSGU, Surat during 22<sup>nd</sup> to 27<sup>th</sup> February, 2012.
10. and presented a paper entitled "*Some interesting properties of Fibonacci and Tribonacci sequence*" at the 'Annual Conference of Gujarat Science Congress' held at The M. S. University of Baroda, Vadodara on 26<sup>th</sup> February, 2012.

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

1. A six-day workshop on "Teachers' Training & Capacity Building Programme" organized by KCG during 21<sup>st</sup> to 26<sup>th</sup> December, 2011.

2. Workshop on Choice Based Credit System (CBCS) at VNSGU, Surat on 10<sup>th</sup> July, 2011.
3. ICER-11 held at SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011.

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

1. One-day orientation programme NSS programme officer at Shree J. P. Arts and Science college, Bharuch on 18<sup>th</sup> September, 2011.
2. “UDISHA Pre-Placement Training Programme” organized by Knowledge Consortium of Gujarat, Gandhinagar and Veer Narmad South Gujarat University, Surat on 17<sup>th</sup> April, 2011 at VNSGU, Surat.
3. A one-day seminar on “ज्ञानशक्ति, युवाशक्ति अने विकास” organized by Knowledge Consortium of Gujarat, Gandhinagar and Veer Narmad South Gujarat University, Surat on 21<sup>st</sup> April, 2011 at Indoor Stadium, Surat.
4. “Training program of Choice based Credit System” organized by KCG, Gandhinagar held at VNSG University, Surat on 10<sup>th</sup> July, 2011.
5. “Training and Capacity building Programme” organized by KCG, Education Department, Govt. of Gujarat held at Ahmedabad Management Association, Ahmedabad during 5<sup>th</sup> to 10<sup>th</sup> December, 2011.
6. “State level workshop on MATHEMATICA software” organized by V. S. Patel College of Arts and Science, Billimora during 11<sup>th</sup> and 12<sup>th</sup> December, 2011.

Prof. Priti Singaraju of Department of English participated in

1. One-day workshop on “SCOPE” at Gandhinagar on 13<sup>th</sup> June, 2011.
2. National UGC seminar on “Contemporary Indian Drama : Themes and Forms” organized by the Department of English, VNSGU, Surat during 14<sup>th</sup> February, 2012 to 15<sup>th</sup> February, 2012.

## Annexure II

Prof. Anita Bahadur of Department of Zoology had paper publications

1. Histopathological Manifestations of Sub Lethal Toxicity of Copper Ions in *Catla catla* **American-Eurasian Journal of Toxicological Sciences (1): 01-05( 2011).**
2. Histotoxicity of acid orange 7 on organs of freshwater fish *labeo rohita*. **Res and reviews: A journal of toxicology 1, 1-9,(2011).**
3. Interaction and solubilization of some phenolic antioxidants in Pluronic<sup>®</sup> micelles **Coll & Surfaces Biointerfaces B 86(2):319-26 ( 2011). Impact factor 3.42**
4. Micelles from PEO-PPO-PEO block copolymers as nanocontainers for solubilization of a poorly water soluble drug hydrochlorothiazide **Colloids and Surfaces B: Biointerfaces B 83,49 – 57( 2011) Impact factor 3.42**
5. Study of nickel toxicity and recovery in freshwater major carp catla, **Journal of Toxicology, 1(2), (2011).**
6. Inhibition of urease immobilization in alginate beads by heavy metals, **Biochemistry: An Indian Journal, 5 (3), 151-157, (2011).**
7. Byssus thread: a novel support material for urease immobilization, **Applied Biochemistry and Biotechnology, 165(7-8), 1568-1576, (2011). Impact factor 1.35**

Prof. Dr. Shailesh Prajapati of Department of Botany had an oral presentation at

1. “National Symposium of Evolving to Improve Productivity from Dynamic Management and Value Addition for Plant Genetic Resources” titled “Water Quality Index of Sabarmati River”.

Prof. Anjali Varshney of Department of Botany had a paper publication

1. “**Study Of Some Soil Parameters Near Shekha Jheel (Up), In Respect Of Nematodes**” in bionotes. **ISSN 0972-1800**. Pg 19-20(2011)

Prof. N. R. Solanki of Department of Zoology had paper publications

1. Physico-chemical properties of weir cum cause way of Tapi River, Surat, Gujarat Journal – Bioscience Guardian, 2 (1), 2012, 163-166. ISSN 2277-9493.
2. Plankton studies of ‘Ugat Vania Lake’ of Surat city, Gujarat, India. Journal – Bioscience Guardian, 2 (2), 2012, 187-189. ISSN 2277-9493.

Prof. M. H. Chaudhri of Department of Chemistry a paper publication

3. Spectrophotometric determination of Cu(II) with 1- (2’ methyl- 4’ sulphophenyl) -3- methyl – 4- azo ( 4” sulphonamidophenyl) -5- pyrazolone Dye-1 ISSN: 0020-3254 vol. 84 2012  
Journal of the Institution of Chemists (India)

Prof. M. B. Mahida of Department of Chemistry paper publications

1. “Aliphatic amines as corrosion inhibitors for Zinc in hydrochloric acid”  
H. G. Chaudhri and Mahendrasinh B. Mahida  
Der PharmaChemica, 2012, 4(6) : 2305-2312  
ISSN 0975-413x
2. Aromatic Amines as corrosion inhibitors for Zinc in hydrochloric acid”  
M. B. Mahida and H. G. Chaudhri  
Journal of Chemical and Pharmaceutical Research, 2012, 4(12) : 5195-5201  
ISSN 0975-7384

Prof. S. P. Vora of Department of Chemistry had a Poster presentation

1. “**Use of Neutral alumina for adsorption of acid dye from aqueous solution**” in International Congress of Environmental Research (ICER-11) held at SVNIT, Surat during 15<sup>th</sup> to 17<sup>th</sup> December, 2011 and he was also one of the executive committee members of congress.
2. Effect of Inorganic additives on Sodium dodecyl sulphate- Triton X-100 mixed surfactants system. **J. Surf. & Detergents** (online published in June-2011). DOI 10.1007/s11743-011-1275-2) 14(4),545(2011).IF-**1.545**

Dr. K. C. Desai of Department of Chemistry had a paper publication in JERAD in 2012.

Prof. S. R. Desai of Department of Physics had a paper presentation

1. Entitled “Structural Properties of Environment Friendly Catalyst Material Titanium Dioxide” at ICER-11 held at SVNIT, Surat.

Prof. B. M. Patel of Department of Chemistry had paper publications

1. Application of newly synthesized bisazodichloro-s-triazinyl reactive dyes bearing 1,3,4-oxadiazole molecule.

**Divyesh R. Patel, Bhavesh M. Patel, Naitik B. Patel and Keshav C. Patel\***

Journal of Saudi Chemical Society, Accepted for publication, (2011)

2. Synthesis and dyeing properties of some new monoazo disperse dyes derived from 2-amino-4-(2',4'-dichlorophenyl)-1,3 thiazole.

**Divyesh R. Patel, Naitik B. Patel, Bhavesh M. Patel and Keshav C. Patel\***

Journal of Saudi Chemical Society, Accepted for publication, (2011)

Prof. J. M. Desai of Department of Mathematics had a paper publication

1. Modification of Chebyshev's Inequality and corresponding Sharper Bound using Mean Deviation as Measure of Dispersion rather than Standard Deviation, VNSGU Journal of Science & Technology, ISSN 0975-5446, Vol: 3, Issue:1, 57-65

Prof. D. V. Shah of Department of Mathematics had paper publication

**Peer Reviewed Journals: (National)**

1. *Some Tribonacci Identities*: Mathematics Today, Vol. 27, Dec. 2011, 1 – 9.
2. *Special cases of Tribonacci periodicity*: Journal of the Indian Academy of Mathematics, Vol. 33, No.2, 2011, 483 – 491.

**Peer Reviewed Journals: (International)**

1. *Non-existence of GCD property for the generalized tribonacci numbers*: International Journal of Physical, Chemical and Mathematical Sciences, Vol. 1, No. 1, Jan-June 2012, 29-31.[ISSN 2278-683X]