



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



AFFILIATED TO  
VEER NARMAD SOUTH GUJARAT  
UNIVERSITY SURAT

✽ AQAR ✽

For the year 2014-2015



**Submission of Annual Quality Assurance Report  
(AQAR)  
in Accredited Institutions**

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## Part – A

### 1. Details of the Institution:

1.1 Name of the Institution	P. T. Sarvajanik College of Science, Surat
1.2 Address Line 1	M. T. B. College Campus,
Address Line 2	Jawaharlal Nehru Marg, 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. MHC0GN 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:

Sr.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	A	3.03	2015	5 years
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC:

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: 2013-14 submitted to NAAC on 21/08/2014

1.10 Institutional Status

University: State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

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

Type of Institution      Co-education     Men     Women   

Urban  Rural  Tribal

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

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

#### 1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (PhysEdu)

TEI (Edu)  Engineering  Health Science  Management

Others(Specify)

Nil

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

Veer Narmad South Gujarat University (VNSGU), 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-CE

UGC-Special Assistance Programme  DST-FIST

UGC-Innovative PG programmes  Any other (*Specify*)

UGC-COP Programmes

## **2.IQACComposition and Activities:**

2.1 No. of Teachers	<input type="text" value="06"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="01"/>
2.3 No. of students	<input type="text" value="01"/>
2.4 No. of Management representatives	<input type="text" value="02"/>
2.5 No. of Alumni	<input type="text" value="02"/>
2. 6 No.of any other stakeholder and community representatives	<input type="text" value="01"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="01"/>
2.8 No. of other External Experts	<input type="text" value="01"/>
2.9 Total No. of members	<input type="text" value="15"/>
2.10 No. of IQAC meetings held :	<input type="text" value="03"/>
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="0"/> Faculty <input type="text" value="-"/>
Non-Teaching Staff	<input type="text" value="02"/> Students <input type="text" value="0"/> Alumni <input type="text" value="01"/> Others <input type="text" value="02"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If yes, mention the amount	<input type="text" value="Rs Rs 3,00,000/-"/>
2.13 Seminars and Conferences (only quality related):	
(i) No. of Seminars/Conferences/Workshops/Symposia organized by the IQAC	
Total Nos. International	<input type="text" value="-"/> National <input type="text" value="-"/> State <input type="text" value="-"/>
Institution Level	<input type="text" value="-"/>
(ii) Themes	<input type="text" value="-"/>

2.14 Significant Activities and contributions made by IQAC :

- |   |
|---|
| <ol style="list-style-type: none"> <li>1. SES has tied up with “Film Society of India, Surat Chapter” and the Institute started screening good documentaries/science movies in the Institute.</li> <li>2. A series of lectures on “Nobel prize” in various subjects.</li> <li>3. A seminar slot is provided in the time table in which various talks, invited lectures, informative lectures are arranged.</li> </ol> |
|---|

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 seminar/workshop on different themes	1. One state-level seminar and one state-level workshop were proposed to UGC and have been sanctioned. We are waiting for the release of fund and accordingly it will be organized.
2. To arrange a series of lectures on “Nobel Prize” in different subjects. The purpose is to motivate students to build their career in the field of research.	2. One on “Nobel Prize in Physics-2014”. The lecture was interactive type wherein the students asked questions also.
3. It was decided to add a seminar slot in the time table	3. Seminars were delivered by the faculties/eminent scientists/personalities of different Institutes as well as from our Institute in the fields like research, “Nobel Prize”, career guidance etc.

<p>4. To take students to educational tours</p>	<p>4. Educational tours were arranged by the individual departments to different places like Dharampur (at Dharampur Science Center), Kakrapar (at Kakrapar Atomic Power Station), Visalkadi (for night sky gazing), Kevadiya Colony (SardarSarovar Dam) etc.</p>
<p>5. To encourage students to participated in national/state level examinations/ activities</p>	<p>5. (a) Two students of S. Y. B. Sc. (Physics) were selected for “Advanced B. Sc. Physics Summer Program” organized by VASCSC, Ahmedabad. It’s a three-week program which was held at St. Xavier’s College, Ahmedabad during summer vacation of 2014. In the program, the students are trained to develop an attitude towards solving problems of Physics and simultaneously, they are made to think in building their career in the field of research by taking them to the visits of PRL, IPR, VASCSC, ISRO and giving them opportunity to interact with the scientists working there.</p> <p>(b) The Department of Physics conducts every year a national level exam, called NGPE, wherein second and third year students participate. Almost every year, our students get state level merit certificate.</p> <p>(c) The Department of Mathematics conducts a state level exam, called, “A. R. Rao Ganit Spardha”.</p> <p>(d) T. Y. B. Sc. student Ms. Ghazal Panchal was selected for a short-term project on “Cosmology” at TIFR, Mumbai under Prof. T. P. Singh during December, 2014.</p> <p>(e) A One-day symposium on “Extra Dimension” in Astronomy: “Bhaskaracharya” by Shree Ramkrishna Institute of Computer Education &amp; Applied Sciences, Surat. Ms. Dharini Visave and Ms. Divya Vora won the second prize in the poster competition in this event.</p> <p>(f) 12 students of our College participated in “Anveshan-</p>

	<p>VigyanUtsav” organized by C C Patel Community Science Center, S P University, Vallabh Vidyanagar. Ms. DivyaVora and Ms. Monica Jiyani won consolation prize. Congratulations to them.</p> <p>(h) 16 students of our college attended “Mumbai Area Physics Meet on Astronomy &amp; Cosmology” held at TIFR, Mumbai.</p> <p>(i) Prof. V. H. Thakkar delivered a power point presentation on “ગુજરાતી ભાષામાં વિજ્ઞાનલેખન”.</p>
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\* Attach the Academic Calendar of the year as Annexure.

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2.15 Whether the AQAR was placed in statutory body: Yes  No

Management  - Syndicate  - Any other body  -

Provide the details of the action taken

It is placed in the Local Administrative Committee (LAC).

## 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	-	1 (Academia)	-	-
<b>Total</b>	11	-	-	-
Interdisciplinary	-	-	-	-

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

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

Pattern	Number of programmes
Semester	5+2 [ 5 (UG)+2(PG)]
Trimester	-
Annual	-

##### 1.3 Feedback from stakeholders\*

*(On all aspects)*

Alumni  Parents  Employers  Students

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

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

University revises the syllabus from time to time

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

No

## Criterion – II

### 2. Teaching, Learning and Evaluation:

2.1 Total No. of permanent faculty:

Total	Asst. Professors	Associate Professors	Professors	Others
29	03	19	0	07

2.2 No. of permanent faculty with Ph.D. 18

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, Visiting faculty and Temporary faculty:  10

2.5 Faculty participation in conferences and symposia: **(Refer to Annexure I):**

No. of Faculty	International level	National level	State level
Attended			
Presented papers			
Resource Persons			

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

- Computer lab with LAN and net connectivity has been established
- Multimedia technology was adopted and implemented
- Showing NPTEL, MIT lectures and Nobel prize lecture series
- ICT enabled in teaching and learning process
- Conducted regularly study tours

2.7 Total No. of actual teaching days during this academic year 190

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

As per university rules

2.9 No. of faculty members involved in curriculum restructuring/ revision/ syllabus development 02    
as member of Board of Study/Faculty/Curriculum Development workshop

82%

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 %
B. Sc.	455	157	157	47	08	85.12
M. Sc.	82	40	37	05		100

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

Meetings are regularly held for monitoring and evaluating the teaching and learning processes and necessary steps are taken.

2.13 Initiatives undertaken towards faculty development:

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	0
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	0
Faculty exchange programme	0
Staff training conducted by the university	0
Staff training conducted by other institutions	0
Summer / Winter schools, Workshops, etc.	0
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	12	21	0	18
Technical Staff	7	08	0	00

### Criterion – III

#### 3. Research, Consultancy and Extension:

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

- Some faculty members have applied for the minor/major research project to various funding agencies.

##### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		1		1
Outlay in Rs. Lakhs		11.268		

##### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number		1		
Outlay in Rs. Lakhs		1.25		

##### 3.4 Details on research publications (**Refer to Annexure II**)

	International	National	Others
Peer Review Journals	5	2	
Non-Peer Review Journals			
e-Journals			
Conference proceedings	5		

##### 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	11,26,800/-	8,02,800/-
Minor Projects	02	GUJCOST	1,25,000/-	
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (other than compulsory by the University)				
Any other(Specify)				
Total			12,51,800/-	

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from : NA

UGC-SAP  CAS  DST-FIST

DPE  DBT Scheme/funds

3.9 For colleges: N.A.

Autonomy  CPE  DBT Star Scheme

INSPIRE  CE  Any Other (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  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College

Total  from MRP

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 (Annexure II)

Total	International	National	State	University	Dist	College
	1	spain				1

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

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

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

JRFSRF   Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level

National level  International level

3.22 No. of students participated in NCC events:

University level  State level

National level  International level

3.23 No. of Awards won in NSS:

University level  State level

National level  International level

3.24 No. of Awards won in NCC:

University level  State level

National level  International level

3.25 No. of Extension activities organized:

University forum  College forum

NCC  NSS  Any other

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

## 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	13	0		13
Laboratories	15	0		15
Seminar Halls	2	0		2
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	0	0		0
Value of the equipment purchased during the year (Rs. in Lakhs)		4.79	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	1217	143970/-	537	155403/-	1754	299373/-
Reference Books	8500	1939512/-	14	5283/-	8514	1944795/-
e-Books						
Journals	168	260075/-	23	56285/-	191	316360/-
e-Journals						
Digital Database						
CD & Video	2	60.00			2	60.00
Back Volumes of Journals	95				95	

#### 4.4 Technology up gradation (overall)

	Total Computers (Desktop+ Laptops)	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	23	0	9					
Added	7	0	0					
Total	30	0	9					

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

ICT enabled teaching learning process.

4.6 Amount spent on maintenance in lakhs :

i) ICT	-
ii) Campus Infrastructure and facilities	6,18,358/-
iii) Equipments	2,35,899/-
iv) Others	4,20,161/-
<b>Total :</b>	<b>12,74,418/</b>

## Criterion – V

### 5. Student Support and Progression

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

An orientation program for the new entrants was arranged in the beginning of the academic year to inform them about the Institute, the facilities available to them and the activities carried out for them during the year.

#### 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 No. of students

UG	PG	Ph. D.	Others (Project Fellow)
1373	91	17	Nil

(b) No. of students outside the state

(c) No. of international students

Men- 

No.	%

Women

No.	%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
811	62	213	376	03	1464	855	85	192	436	0	1568

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

Nil

No. of students beneficiaries

Nil

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

NET  SET/SLET  GATE  CAT

IAS/IPS etc  State PSC  UPSC  Others

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

Counselling to the students during class hours

No. of students benefitted

#### 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
10	315	2	

#### 5.8 Details of gender sensitization programmes

- Abhayam 181 – a lecture by Priti Joshi mahila shashakti karan
- Self defence through Karate Rakesh Barot
- Importance of yoga in women health
- Beti bachavo Dr C L jain
- Stri suraksha abhigam

#### 5.9 Students Activities:

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

State/ University level National level  International level

##### No. of students participated in cultural events

State/ University level  National level  International level

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

Sports: State/ University level  National level  International level

Cultural: State/ University level  National level  International level

#### 5.10 Scholarships and Financial Support:

	Number of students	Amount (in Rs.)
Financial support from institution	20	82,991/-
Financial support from government	413	25,23,740/-
Financial support from other sources		
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

1

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

## Criterion – VI

### 6. Governance, Leadership and Management

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

Vision: To 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 “Sarvajanik” in true sense to create scientific thrust and to make the students explore new horizons of science through research.

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

Yes

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

##### 6.3.1 Curriculum Development

Curriculum is prepared by the university

##### 6.3.2 Teaching and Learning

ICT enabled teaching

##### 6.3.3 Examination and Evaluation

Regular tests and internal examinations are conducted as per the instruction of the university

##### 6.3.4 Research and Development

Teachers are encouraged to pursue research and attend conferences

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

New course based books purchased in good numbers

##### 6.3.6 Human Resource Management

Teachers are given additional charges for various extra-curricular and co-curricular activities

##### 6.3.7 Faculty and Staff recruitment

Faculty and staff recruitments are done as per the rules and regulations of the university

6.3.8 Industry Interaction / Collaboration

Nil

6.3.9 Admission of Students

- Admissions are conducted as per the university norms and government orders.
- Strict transparency and admission rules are adhered to by the college.

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	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 university norms and regulations

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 works hand in hand with the college management. Two invited talks were sponsored by our alumni association. It provides scholarships to the needy students

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

It has been resolved to mount solar lights in the campus to make the campus eco-friendly  
Training is imparted to students for a green, clean campus drive

## 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.

- An orientation program was arranged for the new entrants in which they were informed about the facilities available in the institute, the activities carried out in the institute during the academic year and also they were guided about the career opportunities available after their graduation in all the subjects

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 Manuals*)

- Bridge Courses were conducted in various subjects to strengthen the fundamentals of the subject.
- Plenary lecture on “Nobel Prize Winners in 2014” by an eminent scientist.

***\*Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

7.4 Contribution to environmental awareness / protection

- Health run was organized by the Institute to bring awareness among students and staff members
- Vermi compost unit is established and being taken care
- An Eco club is established under whose leader ship campus is cleaned time to time
- A lecture on wildlife awareness was arranged
- On 18.7.2014 a wild life conservation and training programme was

7.5 Whether environmental audit was conducted?      Yes       No

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

- An “Inter-College Staff Tournament” was arranged in which many of the staff members participated and won the trophies

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

1. To arrange Bridge Courses in all the subjects that we offer at the UG level
2. To arrange invited talks on different topics of current affairs and others
3. To arrange talks on “Nobel Prizes” given in different subjects
4. To organize state level workshop/seminar in different subjects
5. To take our students to various places of academic interest
6. To celebrate “National Science Day” and in doing so, to bring awareness in the young minds and make them think differently
7. To inspire the students to participate in various academic activities on and off the campus
8. To motivate them to prepare power point presentations in their fields of interest and present them in front of the other students
9. To organize “Health Run” to bring awareness about their health
10. Any other student-centric program that is possible

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

### Conferences / Workshop

1. Dr. Anita Bahadur of Department of Zoology participated in Process Development & Scale-Up seminar USA 2015 Woodbridge Hotel in Iselin, NJ, USA on May 7<sup>th</sup>, 2015.
2. Dr A. H. Dholakia & Dr J. M. Patel  
Use of social media in higher education and research sponsored by GUJCOST held at Govt Science college, Chikhli (Gujarat)
3. Dr D V Shah of Department of Mathematics, presented research paper
  - a. *Extended Binet's formula for the class of generalized Fibonacci Sequences*: Proceedings of 19<sup>th</sup> Annual cum 4<sup>th</sup> International Conference of Gwalior Academy of Mathematical Sciences, Oct. 2014, 109 – 113.
  - b. *Some results related with the class of second order linear homogeneous recurrence relations with constant coefficients* : Proceedings of 19<sup>th</sup> Annual cum 4<sup>th</sup> International Conference of Gwalior Academy of Mathematical Sciences, Oct. 2014, 158 – 163.
4. Dr. K. J. Chauhan of Department of Mathematics, presented research paper
  - a. *The similarity solution of the imbibition phenomenon of immiscible fluids in porous media*: International conference: “Engineering-Issues, Opportunities and Challenges for development”, on 11<sup>th</sup> April, 2015 organized by S. N. Patel Institute of Technology and Research Centre, UmraKh. Dist: Surat(India) (jointly with Ms. Falguni Dabhade) [ISBN:978-81-929339-1-7]
  - b. *The similarity solution of the concentration dependent linear diffusion equation*: International conference: “Engineering-Issues, Opportunities and Challenges for development”, on 11<sup>th</sup> April, 2015 organized by S. N. Patel Institute of Technology and Research Centre, UmraKh. Dist: Surat(India) (jointly with Ms. Falguni Dabhade and Dr. D. M. Patel) [ISBN:978-81-929339-1-7]
5. Dr. Priti V. Tandel of Department of Mathematics, presented research paper
  - a. *Solution of fingering phenomenon arising in double phase flow through porous media by Crank-Nikolson method*: International conference: “Engineering-Issues, Opportunities and Challenges for development”, on 11<sup>th</sup> April, 2015 organized by S. N. Patel Institute of Technology and Research Centre, UmraKh. Dist: Surat(India) [ISBN:978-81-929339-1-7]

## Annexure II

### Research papers:

1. Dr A. Bahadur – Department of Zoology
  - (a) Immobilization of urease in alginate beads for urea stimulation, **Research** (ISSN: 2334-1009) 2015.
  - (b) Toxic effects of azo dye on blood parameters of fresh water fish *Labeorohita* **J of Cell Tiss res.** 14(2) 4251 – 4254, 2014
  - (c) NaCl-triggered self-assembly of hydrophilic poloxamine block copolymers Anita Bahadur, Sonia Cabana-Montenegro, V KAswal, Emilio V. Laged, Isabel Sandez-Machod, Angel Concheirob, Carmen Alvarez-Lorenzob,\*, P Bahadur,\* **International Journal of Pharmaceutics** 494 (2015) 453–462.
  
2. Dr D. V. Shah:
  - a. *Generalized Fibonacci sequence and its properties* : International Journal of Physics and Mathematical Sciences, 4 118 – 124. [ISSN: 2277-2111] 2014
  - b. *Optimum Timetable Algorithm using Discrete Mathematics* : International Journal of Advance Engineering and Research Development, 1,1 – 9. [ISSN: 2348-6406] 2014
  - c. *Right k-Fibonacci sequence and related identities*: International Research Journal of Mathematics, Engineering & IT, 2, 25 – 39. [ISSN: 2349-0322] 2015
  - d. *A new class of Generalized Lucas sequence*: International Journal of Advanced Res in Engi, Sci& Management, pp. 18.1 – 18.7,2015. [ISSN: 2394-1766]
  - e. *Periodicity of Tetranacci numbers modulo 10<sup>t</sup>*: Proceedings of International Conference on “Engineering: Issues, opportunities and Challenges for Development”, April 2015, 9 – 15. [ISBN: 978-81-929339-1-7]
  - f. *The powers of k-Fibonacci and k-Lucas golden ratios in terms of Continued fraction*: Proceedings of International Conference on “Engineering: Issues, opportunities and Challenges for Development”, April 2015, 16 – 22. [ISBN: 978-81-929339-1-7]
  - g. *An Interesting generalization of Fibonacci and Lucas sequence*: Proceedings of National Conference on “Recent Advances in Engineering for sustainability NCRAES – 2015”, 29-30 May, 2015, 1 – 5. [ISBN: 978-93-83767-30-4]

### Awards

- Dr. A. Bahadur – Department of Zoology
- Res. Excellence Award for one month stay at USC, Spain July 2014