Charutar Vidya Mandal's

Natubhai V. Patel College of Pure and Applied Sciences

A c c r e d i t e d 'A' G r a d e b y N A A C

Affiliated to Sardar Patel University

Near Mota Bazar, Vallabh Vidhyanagar - 388 120,
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Annual Quality Assurance Report (AQAR)

2016-17

Submitted To

National Assessment & Accreditation Council (NAAC)

Nagarbhavi, Bangaluru - 560072

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

AQAR for the year *(for example 2013-14)*

2016-17

1. Details of the Institution

1.1 Name of the Institution	CHARUTAR VIDYA MANDAL'S Natubhai V. Patel College of Pure and Applied Sciences
1.2 Address Line 1	Near Post Office,
Address Line 2	Mota Bazar
City/Town	Vallabh Vidyanagar
State	GUJARAT
Pin Code	388 120
Institution e-mail address	nvpascollege@yahoo.co.in / principal@nvpas.edu.in
Contact Nos.	02692-235500/234111
Name of the Head of the Institution:	Dr. Basudeb Bakshi
Tel. No. with STD Code:	02692-235500/234111
Mobile:	09427382875
Name of the IQAC Co-ordinator:	Dr. Rita N. Kumar
Mobile:	09825924687
IQAC e-mail address:	ritankumar@yahoo.co.in

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)*

GJCOGN13836

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)

EC/PCA/48/40 dated 8-3-2009

1.5 Website address:

www.nvpas.edu.in

Web-link of the AQAR:

http://www.nvpas.edu.in/Docs/IQAC/AQAR2016-17.pdf

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	1st Cycle	A	3.10	2009	5 Years
2	2nd Cycle	A	3.01	2016	5 Years
3	3rd Cycle	-	-	-	-
4	4th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC :   DD/MM/YYYY   25.06.2009

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011)*
   i. AQAR 2015-16 Submitted to NAAC on 22.07.2016 (Online)
   ii. AQAR 2014-15 Submitted to NAAC on 05.06.2015 (Online)
   iii. AQAR 2013-14 Submitted to NAAC on 14.10.2014 (Online)
   iv. AQAR 2012-13 Submitted to NAAC on 26.09.2013 (Online)
   v. AQAR 2011-12 Submitted to NAAC on 28.09.2012 (Online)
   vi. AQAR 2010-11 Submitted to NAAC on 21.09.2011
   vii. AQAR 2009-10 Submitted to NAAC on 01.07.2010

1.9 Institutional Status

   University   State [√] Central [ ] Deemed [ ] Private [ ]

   Affiliated College   Yes [√]   No [ ]

   Constituent College   Yes [ ]   No [√]

   Autonomous college of UGC   Yes [ ]   No [√]

   Regulatory Agency approved Institution   Yes [ ]   No [√]
   (eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education   [√]   Men [ ]   Women [ ]

                          Urban   [ ]   Rural [√]   Tribal [ ]

Financial Status   Grant-in-aid [ ]   UGC 2(f) [√]   UGC 12B [√]

                  Grant-in-aid + Self Financing [ ]   Totally Self-financing [√]

1.10 Type of Faculty/Programme

Arts [ ]   Science [√] Commerce [ ]   Law [ ]   PEI (Phys Edu) [ ]

TEI (Edu) [ ] Engineering [ ]   Health Science [ ]   Management [ ]

Others   (Specify)

| B.C.A. |
| M.Sc. IT Integrated Course (5 Years) |

1.11 Name of the Affiliating University *(for the Colleges)* | Sardar Patel University |

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. IQAC Composition and Activities

2.1 No. of Teachers

16

2.2 No. of Administrative/Technical staff

01

2.3 No. of students

03

2.4 No. of Management representatives

03

2.5 No. of Alumni

02

2. 6. No. of any other stakeholder and community representatives

01

2.7 No. of Employers/ Industrialists

01

2.8 No. of other External Experts

01

2.9 Total No. of members

28

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. | 16 | Faculty | 10 |

Non-Teaching Staff Students | 3 | Alumni | 01 | Others | 2 |

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

If yes, mention the amount | Nil | | - | | √ |

2.13 Seminars and Conferences (only quality related)

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

Total Nos. | 6 | International | | National | - | State | 2 | Institution Level | **4** |

(ii) Themes | Best Practice in Quality Control-Kaushalya |

2.14 Significant Activities and contributions made by IQAC

> 1. Completion and submission of SSR
> 2. Decentralization of Assessment of Answer-sheets.
> 3. Student Centric activities such as seminars, projects, study tours etc.
> 4. Extension activities
> 5. Organizing workshop/Symposium

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 conduct state level events focusing student community. 2. Advanced learner centric activities 3. Extension activities at adopted village.	1. Genequest 2017 State level inter collegiate competition on 7th January, 2017. 2. N-BT-CBC Workshop 3. Renovation of Chemistry Lab. 4. Skill development program on Mushroom cultivation. 5. Two week short term course by English Dept. for Skill Development. 6. 02 Seminars for advanced learners 7. Outreach programs at Dahemi & various schools/colleges.

Attach the Academic Calendar of the year as Annexure.

(Annexure – I: *Academic Calendar*)

2.15 Whether the AQAR was placed in statutory body   Yes [√]   No [ ]

Management [ ]   Syndicate [ ]   Any other body [√]

Provide the details of the action taken

The AQAR was presented before Advisory Committee of the Institution which included management personnel and academic experts from various institutions. The opinion and suggestions from various academic peers and management were taken into consideration.

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	00		00	
PG	01		01	
UG	12		12	
PG Diploma				
Advanced Diploma				
Diploma			01	01
Certificate			05	05
Others				
Total	13		19	06

Interdisciplinary				
Innovative				

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

Pattern	Number of programmes
Semester	13
Trimester	
Annual	

1.3 Feedback from stakeholders*   Alumni [√]   Parents [√]   Employers [√]   Students [√]
    (On all aspects)

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

Please provide an analysis of the feedback in the Annexure (Please refer Annexure 2)

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

NO

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

Department of Industrial Chemistry has emerged as a separate department from the Department of Chemical Sciences.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
43	39 (2016)	Nil	Nil	Physical Instructor: 1 Librarian: 1 Adhyapak Sahayak: 2

2.2 No. of permanent faculty with Ph.D.

28

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
39	Nil	NA	NA	NA	NA	04	Nil	43	Nil

2.4 No. of Guest and Visiting faculty

and Temporary faculty

Nil

Trainee teachers: 32

Adhyapak sahayak: 02

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	1	7	2
Presented papers	--	5	----
Resource Persons	1	3	-----

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

Following innovative practices are followed in teaching learning process:

> Counselling system for all the students
> Open house for parent teacher interaction
> Remedial class and crash course for weak learners
> Entrance exam preparation cell for advance learners.
> Feed back from parents and students
> On line aptitude test
> Knowledge sharing forum, carbon foot print club and technoinnaprenur club
> Project based learning
> Organizing seminars/workshops/symposia.
> Encouragement for participation in various state/national level competitions.
> Increase in the number of ICT enabled classrooms.
> Use of portable mike system for addressing classes with higher strength.
> Certificate courses in various departments (BT GT BNF, MI Computer and English)
> Skill development programme in some departments (BT, GT & BNF, MI & Physics).

2.7 Total No. of actual teaching days

during this academic year

| 180 |

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

1. Showing answer sheets of both unit test and prelims to students and parents.

2. Verification of internal marks by the student and the concerned examination committee in charge before submitting the same to the university.

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

| BOS: 11 | Faculty: 11 | |

2.10 Average percentage of attendance of students

| 80% |

2.11 Course/Programme wise

distribution of pass percentage :   Grade point system has been implemented from year 2010. University declares result in the form overall passing percentage and Not clear students.

Academic session 2016-17

Title of the Programme	Total no. of students appeared	Pass %
B.Sc.6th Semester	380	86.05
BCA 6th semester	30	96.61
MSc IT(Integ)	02	100
Certificate	10	100
Diploma	----	----

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

The IQAC of the institution every year submits the Annual Quality Assessment Report to the NAAC. On the basis of data filled in the previous year and on the basis of SWOT analysis, it recommends the parameters for the various academic activities and co curricular activities of the institution.

• It sets the standard for which each department and individual member should strive to achieve.

• It ensures that the curriculum goals are met and that this is in keeping with the goals of higher education.

• It plays an active role in forming an agenda and works along with various committees.

• It monitors the implementation of the curriculum.

• It ensures that suggestions are implemented to enhance the overall potential of the students.

• It suggests and organizes workshops and sensitization programmes for the upliftment and capacity building of faculty.

• It recommends use ICT in the class room teaching.

• It advises the faculty to attend workshops on a roaster basis and also to present papers at national or international symposia.

• It initiates the collection of feedback from students, alumni and parents which is then analyzed for suggestions on further improvement.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	nil
UGC – Faculty Improvement Programme	-
HRD programmes	03
Orientation programmes	----
Faculty exchange programme	
Staff training conducted by the university	-----
Staff training conducted by other institutions	08
Summer / Winter schools, Workshops, etc.	03
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	34	Nil	Nil	Nil
Physical instructor	01	-	-	-
Technical Staff	10	Nil	Nil	Nil

Criterion – III

3. Research, Consultancy and Extension

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

No, the institute does not have a recognized research center, however, the institute is affiliated to Sardar Patel University and the faculties are recognized guides in various subjects like Microbiology, Biotechnology, Botany, Environmental Science, Chemistry, Industrial Chemistry and Physical Sciences The students can enroll for Ph.D programme under the recognized supervisor provided he/she passes the Ph. D entrance examination. The registration of the candidate is carried through SICART.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	02	01	01
Outlay in Rs. Lakhs	38.00	34.00 amount completely received)	44.00 (amount to be released 14.5 lakhs)	5.10

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	01		01
Outlay in Rs. Lakhs		3.50	2.90 + 3.50-	1.0

3.4   Details on research publications

	International	National	Others
Peer Review Journals	21	00	03
Non-Peer Review Journals	nil	Nil	
e-Journals		01	
Conference proceedings	nil		

3.5 Details on Impact factor of publications:

Range 0.5-5.0 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	2016-17 continued projects&NEW PROJECTS	DBT, ISRO,GUJCOST		18.24 lakh
Minor Projects	2016-17	GUJCOST	3.5 Lakh	3.5 Lakh
Interdisciplinary Projects	2016-17	DBT	CONSIDERED IN MAJOR PROJECTS	NIL
Industry sponsored	NIL	NIL	NIL	NIL
Projects sponsored by the University/ College	NIL	NIL	NIL	NIL

Students research projects *(other than compulsory by the University)*		GUJCOST	Rs. 76000	Rs. 76000
Any other(Specify)	NIL	NIL	NIL	NIL
Total	2016-17 (including the ongoing projects)			

3.7 No. of books published   i) With ISBN No.   [15]   Chapters in Edited Books   [01]

ii) Without ISBN No.   [02]

3.8 No. of University Departments receiving funds from

UGC-SAP [NA]   CAS [NA]   DST-FIST [NA]

DPE [NA]   DBT Scheme/funds [NA]

3.9 For colleges   Autonomy [NA]   CPE [NA]   DBT Star Scheme [NA]

INSPIRE [NA]   CE [NA]   Any Other (specify) [NA]

3.10 Revenue generated through consultancy   [NIL]

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	NIL	01	02	01	01
Sponsoring agencies	--------		CVM	-------	-----

3.12 No. of faculty served as experts, chairpersons or resource persons   [11]

3.13 No. of collaborations   International [NIL]   National [01]   Any other [ ]

3.14 No. of linkages created during this year   [01]

3.15 Total budget for research for current year in lakhs :

From Funding agency   [18.2]   From Management of University/College   [1.0]

Total   [19.2]

3.16 No. of patents received this year

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

3.17 No. of research awards/ recognitions   received by faculty and research fellows
       Of the institute in the year

Total	International	National	State	University	Dist	College
06	02	NIL	NIL	02	NIL	02

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

10

09

3.19 No. of Ph.D. awarded by faculty from the Institution   03

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

JRF 05   SRF nil   Project Fellows NIL   Any other 00

3.21 No. of students Participated in NSS events:

University level 14   State level 89

National level 08   International level NI

3.22 No. of students participated in NCC events:

University level 19   State level 18

National level   International level 01   12

3.23 No. of Awards won in NSS:

University level 01   State level 04

National level   International level -   01

3.24 No. of Awards won in NCC:

University level 01   State level 10

National level 01   International level 10

3.25 No. of Extension activities organized

University forum | nil | College forum | 02 |

NCC | 00 | NSS | 09 | Any other | 04 |

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

Sr. No.	Report of Activity
1.	Eight volunteers under the leadership of Dr.Tejas Thakkar took active participation in the National Integration Camp sponsored by Ministry of Youth Affairs and Sports, Govt. of India at Agra and organized by NSS Regional Directorate, Lukhnau, Uttar Pradesh and NSS Cell, Dr. B. R. Ambedkar University at Agra, Uttar Pradesh from 13-06-16 to 20-06-16. Two students - Ms.Vidhi Darji and Ms.Archna Garasiya won second prize in the Rangoli making competition.
2.	NSS Unit organized a seminar on 'Addiction Eradication' on 27-06-16 wherein Vidyanagar Town PI Shri. K. S. Dave made a presentation on the theme of 'Addiction Free India' in the presence of Hon. Dy.S.PHetalben.
3.	250 boys, along with Dr. Yogesh Patel, participated in a seminar on the topic 'Art of Mind- Control' organized by ISCKON Temple, V. V. Nagar on 30-06-16 -07-2015. Swami Bhaktivedant addressed students on the aforementioned topic. Some students got their queries solved from ShriSwamiji. Similarly, 300 girls also participated in the seminar on 01-07-16
4.	The Leaders' Orientation Programme for Senior NSS Volunteers was organized in the College Auditorium on 12-07-2016. The Programme Officer talked about leadership quality and skill of Team-work.
5.	NSS Orientation Programme titled 'PARAMPARA' was organized at Sardar Patel Memorial, Karamsad for newly enrolled volunteers on 14-07-2016. The heads and Conveners of various student cells informed students about various activities organized by the concerned cells or clubs throughout the year.
6.	75 NSS volunteers participated in the National level One-Day seminar on climate change titled 'MET AWARE – 2016' organized by the Dept of Physical sciences and ISRO on 16-07-16.
7.	The Unit organized a Tree Plantation Programme on 26-07-16 in the college library premises wherein Principal sir and NSS Programme officers planted some saplings.
8.	An adventure trip to Polo Forest was organized from 12-08-16 to 14-08-16 wherein 65 volunteers participated.
9.	75 volunteers of the Unit participated in the TirangaYatra organized by NSS Cell of Sardar Patel University, V. V. Nagar on 23-08-16.
10.	The NSS Unit, in association with District Legal Services Authority, Anand, organized a seminar on 24-08-16 wherein Ms. Susan Parmar from Kripa Foundation, Baroda delivered a lecture on the sufferings of HIV/AIDS affected people and social indifference they face. Mr. J. Z. Mehta- Legal Officer, District Legal Service Authority, Anand shared information on legal help available for the HIV/AIDS affected people. Hundred and Fifty volunteers participated in this seminar.
11.	The unit organized One-Day Camp on 07-09-16 college wherein cleaning of the college premises was done by three hundred students.
12.	The Unit in association with A. D. Gorwala Blood Bank, Karamsad organized Blood Donation Camp 0n 09-09-16 wherein 105 units of blood was collected.

13.	75 volunteers participated in the Three-Day Celebration of NSS Day organized by NSS Cell of Sardar Patel University, V. V. Nagar and sponsored by State NSS Cell, Department of Higher Education, Government of Gujarat between 22-09-16 and 24-09-16. NVPAS college has become the first science college in the Charotar Region to introduce NSS as an elective subject from the current academic year 2016-17. Dr.Basudeb Bakshi- Principal of the college was felicitated with a special trophy by Dr. Kamal Kumar Kar- Regional Director, NSS for this achievement. Dr. Yogesh Patel- NSS Programme Officer won the Third prize in 'My Unit- My Adopted Village' competition. All the three Programme Officers worked as the members of the organizing committee.
14.	Dr. Yogesh Patel, along with ten volunteers, participated in the State Level Gandhi Jayanti Celebration organized at Porbandar on 02-10-16.
15.	The NSS Unit, in association with Anti-Tobacco Cell organized a One –Day Seminar for the Fourth Grade employees of CVM on the topic 'VyasanMuktiAneVyaktitvaVikas' on 23-10-16. Prof. S. G. Patel – Hon., Secretary CVM was invited as the chief guest. Nearly Hundred and Twenty employees of various institutions participated in this seminar. Dr.Shailesh Shah- renowned Cancer specialist of Anand, Dr.Priyanka Srivastava- from Zudus Hospital, Anand, Dr.Sushen Bhatt from Shri Krishna Hospital, Karamsad and Dr.Kundan Mishra – Faculty of BT,GT,BNF from NVPAS College oriented the employees about adverse effects of various addictions on health and cause of cancer etc. At the end of the programme the employees admitted that they found the programme really efficacious. They also promised to make concerted efforts to give up their addictions.
16.	The NSS Unit, in association with Anti-Tobacco Cell organized a One –Day Seminar for the Fourth Grade employees of CVM on the topic 'VyasanMuktiAneVyaktitvaVikas' on 18-12-16. Prof. S. G. Patel – Hon., Secretary CVM was invited as the chief guest. More than Hundred employees of various institutions participated in this seminar. Dr.Shailesh Shah- renowned Cancer specialist of Anand, Dr.Bhavesh Patel- Principal VP and RPTP Science College, V. V. Nagar, Brahmakumari Reverend Jagrutiben and Dr.Kundan Mishra – Faculty of BT,GT,BNF from NVPAS College oriented the employees about adverse effects of various addictions on health and cause of cancer etc. Two employees from NVPAS college were felicitated for becoming addiction-free.
17.	A Three-Day Industrial Visit to Adani Industries (Mundra Port) was organized on 19-12-16 to 21-12-16 wherein 76 students, along with 4 faculty members participated. They also visited Assembly of Gujarat.
18.	A session of Yoga was organized on 24-12-16 wherein Yogacharya Mr.Dushyant Modi and his wife demonstrated Musical Yoga – a novel method of yoga before the students. More than hundred students participated in this session.
19.	As a part of Good Governance Day inspired by Govt. of Gujarat the NSS Cell of the university organized a One Day Seminar on 'Digital Banking and Cashless Payment' and 'VittiySakshartaAbhiyan' at the Town Hall, Anand on 25-12-16. The Programme officers along with seventy volunteers attended this seminar.
20.	A special programme titled UDAN was organized on 26-12-17 wherein Dr.Dhwani Sharma delivered lecture on Women Empowerment. Four hundred and seventy five female students attended this lecture.
21.	The NSS Unit of the college organized ANNUAL NSS CAMP at Dahemi village (Ta:Borsad and Dist: Anand) from 01.01.17 to 07.01.17 wherein 175 (One Hundred and Seventy-Five) students participated. Many activities related to social service such as Free Medical Check-up Camp, Eye Check-up Camp, Rally for AIDS prevention and Street plays on 'Female Foeticide', 'Clean India Mission',

	'Addiction Eradication', 'Girl Child Education' etc. were organized in this camp.
22.	In association with Extension cell, a special session of Gyandhara was organized at Hariom Nagar on 18-01-17 wherein 75 volunteers actively participated. Shri Mahendrabhai Patel- President of Vidyanagar Palika, Mr.Jitendrbhai Patel- Vice-President of Vidyanagar Palika and Prinicpal of the college were present on this occasion. 60 students were provided educational kits and clothes were distributed among the needy.
23.	Ms.Krinal Parekh (FYBSc) won the second prize in the Patriotic Song competition organized by the NSS unit of M. B. Patel Science College, Anand in January 2017.
24.	Dr.Jagrutiben Suvera- NSS Coordinator, SPU in association with NSS Unit, organized National Youth Day celebration in the auditorium of our college on 22-01-17. More than hundred volunteers participated in drawing and elocution competitions organized during this celebration. Dr.Shivani Mishra- Head P.G. Dept of Social Work, SPU and Ms.Jyoti Tiwair-Director of Computer Centre, SPU and Dr. Rajiv Bhatti NSS PO of VP and RPTP Science College served as judges of various competitions on this occasion.
25.	The Unit, in association with Indian Red Cross Society, Anand organized Blood Donation Camp in the college library on 24-01-17 wherein 103 units of blood was collected.
26.	As a part of National Voters' Day the NSS Unit organized a Drawing Competition on 25-01-17 wherein 38 students participated. Dr. Rita N Kumar – Head Dept of Biosciences and Ms.Shreya Bhavsar Head, Dept of Comp Science served as the judges on this competition.
27.	State level celebration of Republic Day was organized at Vidyanagar on 26-01-17. Dr. Yogesh Patel- NSS Programme Officer was appointed as the Liaison Officer of the NSS platoon by the Govt. of Gujarat. Four NSS volunteers of our college – Mr.Divyang Patel, Mr. Raj Chauhan, Mr.Smit Joshi and Mr.Jaspreet Rajput – participated in the State Republic Day Parade.
28.	Fifty blankets were distributed by the NSS Unit among the needy in the Railway station and Old Bus Stand area of Anand on the night of 26-01-17.
29.	Hon. Governor Shri O. P. Kohli invited the NSS Platoon which participated on the State Republic Day parade to Rajbhavan on 13-02-17. Hon.Central Minister of Education Shri hupendrasinh Chudasama also had a meeting with the NSS team.
30.	The NSS Unit organized motivational talk on 06-02-17. A renowned columnist Dr.Megha Joshi addressed the students on the topic 'Dear Zindgi'. She oriented students about the importance of life and how to face the adversities of life with courage and confidence.

Criterion – IV   2016-17
4.Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	2.96 Acres / 6796 mts	-	Self Finance (CVM)	2.96 Acres / 6796 mts
Class rooms	22	-	Self Finance (CVM)	22
Laboratories	27	-	Self Finance (CVM)	27
Seminar Halls	1 auditorium	-	Self Finance (CVM)	1
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	220 Computers and 16 LCD Projectors	90 Computers and 4 LCD Projector	Self Finance (CVM)	Computers 20 LCD Projector
Value of the equipment purchased during the year (Rs. in Lakhs)	-	35.72	Self Finance (CVM)	35.72
Others equipment's (Rs. In Lakhs)	-	0.38	Self Finance (CVM)	0.38

4.2 Computerization of administration and library

Central Library is fully furnished with reading room, internet, multimedia and reprographic facilities. Books are completely bar-coded. We utilize soul software for the smooth Functioning of library work.

The process of the institute administration is computerized. All data related to academic, non-academic activities, exam results have been computerized in a software developed by staff member and computerization also includes other aspects of office administration like issuing of certificates, payroll etc.

4.3 Library services:

		Existing		Newly added		Total	
		No.	Value	No.	Value	No.	Value (Rs)
Text Books		16607	1909848.00	177	77989	16784	1987837.00
Reference Books		681	660101.95	03	5401	684	665502.95
e-Books		INFLIBBNET					
Journals		19	19860.00	-	-	17	15550.00
e-Journals		INFLIBNET					
Digital Database		-	-	-	-	-	-
CD & Video		599	2500	32	-	631	2500
Others	Magazines	40	24655	-	-	38	23929
	News Paper	07	7089	-	-	7	7962

4.4Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart- ments	Others
Existing	169	82	67			06	08	06
Added	92	92	00			00	00	00
Total	261	174	67			06	08	06

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

Computer and Internet Access: Computer facility is available throughout the campus including Computer Laboratories which includes total 207 Computers.

Internet access through LAN is available in 87computers at Computer lab, Principal, Office, HOD Cabins, Staff Rooms for Academic and Administrative work. Wi-fi facility is available to all registered staff members to provide internet access 24 x 7.

Certificate Course in Web Designing: Computer Science Department organized 30 hours duration certificate course, syllabus of this course is updated every year as per the current trends in Web technology. To promote the use of ICT department allows students of all the courses to enrol for this certificate course of our College.

Computer Science Department has developed and is responsible for maintaining college ERP system for storing student information, internal marks, attendance and letter report generation for counselling system.

Workshops/Seminar under Advance Learner Cell:

1. Seminar on "Google Search Engine Techniques"
2. Workshop on "Web development using Wordpress"
3. Seminar on "GIS"

4.6 Amount spent on maintenancein lakhs:

i) ICT   1.11

ii)Campus Infrastructure and facilities   60.52

iii) Equipments   0.25

iv) Others   7.07

                    Total: 68.95

Criterion – V (2016-2017)

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. Welcome address to new enrollers by Principal on First Day includes information about students support services.
2. On 14th July, 2016 College has organized orientation programme (Parampara) for first year students at Sardar Patel Museum, Karamsad. The chief guest of the programme was Dr. Saurabh Singh, Superintendent of Police, Anand. Around 500 students were oriented regarding college, courses, Madhyastha samiti activities, Examinations, Anti raging cell, women development cell, etc. by concern coordinators/incharge of portfolios.
3. College has students Madhaystha Samiti to provide the information and Support about various students services. These students' council activities are monitored and guided by the IQAC members.

5.2 Efforts made by the institution for tracking the progression

1. Inter action with students during various curricular and co-curricular activities.
2. Percentage of participation in quiz/seminar/competition/sports etc.
3. Result of weekly unit tests and prelim tests.
4. Monitoring through counselors about overall performance
5. Keeping records of alumni through Alumni Association

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1666	17	-----	---

(b) No. of students outside the state

66

(c) No. of international students

00

	No	%		Women	No	%
Men	899	58			651	42

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1110	54	98	280	nil	1542	1144	42	107	343	nil	1636

Last Year (2016-2017)						This Year (2017-2018)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1055	40	79	303	04	1481						

Demand ratio   not applicable   Dropout = (84=Student) (5.14 %)

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

1. EEPC is an Initiative to make the students of NVPAS more competitive to clear entrance exams for the admission in various P.G. courses (e.g. M. Sc. Biotechnology, Microbiology, Biochemistry, Bioinformatics, etc.) at few of the India's most privileged and premier institutes like IIT, IISc Bangalore, TIFR, and some central Universities through JNU Combined Entrance Examination for M. Sc. Biotechnology. EEPC organized more than 72 lecture session and 09 Mock Test for the academic year 2016-2017. This year more than 56 students were enrolled from different subject like Biotechnology, Genetics, Bioinformatics, Microbiology and Environmental Sciences. EEPC activities are coordinated by Dr. Amit Ballani and Dr. Kundan Kumar Mishra.

2. N-BT-CBC (Anand, Vadodara and Panchmahals) VVN-NVPAS conducted two crash workshops from 22nd to 27th April 2016 and 14th Feb to 19th Feb 2017 for both SY and TY B. Sc. students from various colleges of Anand and Vadodara region. More than 120 students participated in these workshops. 64 lecture sessions and 9 Mock tests were conducted. 25 resource persons from Sardar Patel University, M.S University, Baroda, VNGU, Surat, NVPAS, etc. were invited to conduct lecture sessions on different topics of Physics, Chemistry, Biology, Math, etc. These crash workshops were fully sponsored by GSBTM Gandhinagar. These programmes were coordinated by Dr. Amit Ballani and Dr. Kundan Mishra.

No. of students beneficiaries

44

5.5 No. of students qualified in these examinations

NET | 04 | SET/SLET | ---- | GATE | 01 | CAT | --- |

IAS/IPS etc | ---- | State PSC | --- | UPSC | --- | Others | -- |

No.	NAME OF STUDENT	EXAM
1	Mr.Dhaval Bhatt(Biotech)	CSIR NET
2	Ms.Nidhi Kansara	CSIR NET and GATE
3	MS.Sheeba Madaan	CSIR UGC NET
4	Ms. Vandana (Maths)	CSIR UGC NET

5.6 Details of student counseling and career guidance

NVPAS has strong COUNSELING SYSTEM since inception. It functions with the goal of making the students' graduation process more efficient and smooth. It enables the students for self discovery growth, building self confidence, problem solving and to achieve educational and professional goals.

The college has its counseling committee with a counseling coordinator and sectional coordinators for monitoring effective implementation and execution of counseling policies adopted by the

college. Dr. Shveta Joshi, the counseling coordinator is provided with a team of 55 counselors. To strengthen the process and to encourage the counselors, the Best Counselor Award is declared every year. This year, for 2016-17, the award was bagged by Dr.Chetan Dudhagara and Shri Rakesh Patel.

Career Counseling: "Career Quantum" is unique forum which conducts the programs for Final Year students to know about various career options/P.G. programs available after bachelor's degree. By this forum, every year expert faculties are invited to guide the students of final semester. These invited faculties are from the esteemed institutions like ISTAR, ARIBAS and other PG Institutions of SARDAR PATEL UNIVERSITY. They provide proper information and guidance in their subject areas. This year it was on 31st of January 2017, Tuesday.

No. of students benefitted **1550**

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
05	30	09 + 03 INTENSHIP	01

5.8 Details of gender sensitization programmes

The CWDC organizes various events on the campus like seminar, workshops, guest lecture, self defence training, poster making, and poetry writing competition to aware the girl students and women staff members about their role in the society. The Ladies Representatives of various class are the members of the CWDC in our co-educate environment. The cell believes in gender equity.
The college women cell members are; Dr.Shveta Joshi (Coordinator),Dr.Yachana Jha, Ms.Shreya Bhavsar, Dr.Isha Desai, Dr.Usha Verma.

On 1ˢᵗ July2016,Friday one motivational seminar was organised by women cell of the college titled "MIND POWER" with the help of ISKON temple, V.V.Nagar. the speaker of the seminar was Shri Jagdishbhai from ISKON.

On 7ᵗʰ October 2016, Our team comprising of two girl students Ms. Sonal Singh and Ms.Kanishka Thakur Secured second position in the inter college quiz competition organised by H.M.Patel college of Home Sc., V.V.Nagar.

From 7ᵗʰ February 2017, women cell with anti-sexual harassment cell of our college organised short term Self Defense Training Programme for girl students of our college. 45 girl students actively participated and were awarded certificates of training at the end. This training was organised with the help of Shri Chetan Fumakiya, Director of Pratibha Academy, v.v.nagar.

5.9 Students Activities

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

State/ University level | 163 | National level | 10 | International level | ---

No. of students participated in cultural events

State/ University level | 14 | National level | 00 | International level | --

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

Sports : State/ University level | 23 | National level | --- | International level | ---

Cultural: State/ University level | 02 | National level | 00 | International level | --

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	Under Process	
Financial support from government	Under Process	-----
Financial support from other sources (SARAT:2016-2017)	07	17,500
Number of students who received International/ National recognitions		

5.11   Student organized / initiatives

Fairs   : State/ University level | nil | National level | nil | International level | nil

Exhibition: State/ University level | nil | National level | nil | International level | nil

5.12   No. of social initiatives undertaken by the students   02

5.13 Major grievances of students (if any) redressed:

Grievance	Redressed
Revision of Syllabus	Syllabus has been Revised
Change in the procedure of selection of General secretary	Procedure has been changed for selection of General Secretary

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Natubhai V. Patel College of Pure and Applied Sciences (NVPAS) was established in 1996 with the following vision and mission.

➢ **Vision-** We are determined to constantly strive towards excellence in science education and research by promoting academic freedom, experimentation with new paradigms and creativity in complete alignment with the principles of human well being and social welfare.

➢ **Mission**- College has an aim to impart quality education and cultivate a community of enlightened minds with insatiable thirst for knowledge who acquire and apply scientific knowledge within the compass of ethical, ecological and economic values for the sustained and inclusive growth of society and nation.

6.2 Does the Institution has a management Information System

Yes. Besides having the web based facilities like MOODLE and FLINNT for teachers/mentors and students for communication with the stake holders, the college has also developed ERP system for the administration and examination objectives. Under this system, the mentors/counsellors, heads of departments and Principal can obtain the information about the attendance, marks, personal details, etc regarding any student instantly and the details can also be printed. Under this system all the students of college are covered.

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

6.3.1 Curriculum Development

The Sardar Patel University has introduced a new structure of courses for all the CBCS based courses from the next academic year i.e., 2017-18 onwards. The syllabi of all the courses are being designed by the respective Board of Studies of the University. In all the subjects the college has a good representation in the Syllabus framing committees. The new syllabi are prepared as per the model curriculum provided by UGC.

6.3.2 Teaching and Learning

In order to strengthen the Teaching and Learning process and to make it more student-centric the college carries out various academic activities which makes the whole system more result oriented. The glimpses of such activities are as follows:

- A strong interactive interface called ERP system, for the administration related to the teaching and learning has been developed by the college to make the information about the students easily accessible to teachers and counsellors. Besides this the students and teachers are also using other Interactive interfaces like Flinnt and Moodle to communicate with each other. Teachers are also provided with Individualized web space for providing information like web resources, reference books and other worthwhile information.
- To equip the students with necessary practical skills new courses on skill development has been started by the various departments of college. Also the college runs Certificate and Add on courses to keep the students abreast of the latest trends and techniques of the subjects.
- Remedial and tutorial classes as well as crash courses are conducted for first year students to help them in solving their academic difficulties.
- National and state level seminar, workshop and conference are organised by the Departments on different subjects to provide students a platform to interact with the peers.
- Faculty Development Programme by external agencies.
- To follow the continuous evaluation method, the College conducts weekly tests on every Monday from 10.30 am to 11.30 am for all the students.

- College has Entrance Examination Preparation cell (EEPC) and NBTCBC(Network of BioTechnology for Capacity Building Cell) sponsored by GSBTM(Gujarat State Biotechnology Mission) as nodal centre for Anand-Vadodara region to train the students for National level entrance examinations to get admissions to various PG courses.

6.3.3 Examination and Evaluation

The Examination Committee of College ensures the smooth conduct of Internal and External (University) examinations throughout the year. Guided by the Examination Coordinator, the committee runs all the exams by circulating notices, guidelines and takes care of its implementation. The various modes of functioning of the committee are given below:

- Evaluation guidelines are prepared by the Examination coordinator of the college with team members and Heads of the department. Evaluation guidelines are circulated amongst all the faculty members and students of the college through notices.
- The students and faculty members are notified about the schedule of Theory Term Examinations in the beginning of the academic term. Exam Coordinator circulates the exam time table, guidelines about mark distribution pattern and evaluation pattern, assessment deadlines and mark sheet submission deadlines through notices and briefing of the exam committee members who are representatives from each department.
- Guidelines for practical examination are given by the Head of the Department to faculty members in departmental meeting prior to examinations. These guidelines include question framing pattern , distribution of marks based on time duration, submission of evaluation sheet in consultation with departmental examination representative.
- The teaching learning process is continuously reviewed and evaluated by the HOD's of various departments and the Principal of the college.
- The college follows the academic schedule given by the Sardar Patel University. The college prepares academic calendar based on the Term schedule given by the University.
- The HOD in consultation with faculty reviews the course completion and the other aspects of class room teaching and sends the course completion report to the Principal periodically (4 times per semester). The Principal of the college discusses various aspects during HOD's meeting and makes necessary suggestions for further action.
- The student attendance is monitored and reviewed by the respective counsellors and the students with inadequate attendance are specially identified and the parents are informed by the post and telephone for information and corrective & control measures.
- The suggestions received from the students obtained through suggestion box and feedback forms are reviewed time to time by Grievance Redressal Committee and Principal.The academic problems are addressed by taking necessary actions.
- The HOD's make result analysis in consultation with faculty for each exam and send their reports to Principal, who in turn gives necessary suggestions

As per the guidelines of the university all the university practical examinations for all the courses are conducted by the college.

The faculty performance evaluation system has undergone a transformation in which an online module is prepared by the Management in which faculty members should fill the data in the self-assessment form and a direct report is generated by the management about the performance of each faculty so that the necessary actions can be taken.

Faculty performance evaluation is designed by three ways in order to improve their performance and talent based on their teaching skills and contribution to Co-curricular/Extracurricular activities, Extension activities and Research contribution. The Faculty performance evaluation is made through the following mechanisms:

- **Self-Assessment Method**: The faculty members are required to fill the data in an online format provided by the Management of the college. It reflects the individual proficiency in academic, scholastic and research contribution. Self-appraisal forms are analyzed by Head of the institution and the management.

- **Feedback from Peer Review: I**t is carried out by the Principal/HOD by making a surprise visit to the faculties' theory/practical hours. He evaluates faculties for their teaching proficiency, efficiency, regularity and communication skills based on the prescribed format.
- **Evaluation by Students:** Review of faculty is also accomplished by student feedback where students provide their feedback in the prescribed format regarding the faculty of their concerned subjects.

6.3.4 Research and Development

The departments of the college have a strong collaboration with various funding agencies like GUJCOST, DBT, UGC, FES, DST, ISRO, MHRD etc. The faculty members of the college are actively involved in active research through various research projects going on in their departments. Though the institution being an under graduate college, it also has Ph.D. program in various subjects. Presently seven faculty members have been recognized as Ph.D. guide by Sardar Patel University.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The S. S. Patel NVPAS College Library is located in front of the College building across the road. The library is fully equipped with sufficient number of books and other resources and is continuously enriched with new books and facilities. Some of the salient features are as follows:
- Bar-coding system and soul software is employed for issue and return of books.
- Library is equipped with INFLIBNET to access different journals and to access research related articles.
- The college Library has introduced N-List facilities under INFLIBNET, under which the teachers can access the Cambridge Journals and other research journals enlisted under INFLIBNET.
- Wi-Fi facility allows internet facility to the students in the library premises.

The ICT and other infrastructure or instrumentation facilities are continuously upgraded by the college time to time. The major facilities are listed below:
- Most of the classes are facilitated with LCD Projectors
- English Laboratory (Language Lab) is equipped with Smart Board

6.3.6 Human Resource Management

In order to achieve the efficient utilization of its human resources there are several mechanisms and methods in place. The college administration frame and execute various policies, procedures and practices with a view to adopting best administrative practices, increasing effectiveness and efficiency, in turn ensuring transparency & accountability. Some of these practices are:
- Decentralization of administration.
- Selection and retention of highly qualified & motivating faculty members and staff.
- Regular meetings of advisory committee.
- Encouragement for active participation of faculty members in various seminars/conferences.
- An access to internet and LAN facility to the department & Library resources.
- Financial support for organizing workshop, conference, consultancies and extension services both on and off the campus.

6.3.7 Faculty and Staff recruitment

Recruitment Procedure:

As per the norms and conditions of university and state Government, vacancies are notified in National and regional dailies keeping a reasonable time frame for receipt of filled in applications. A formal interview is carried out by a board comprising of One VC Nominee, Principal of the college, Chairman of the College Management Committee.
Selection of the permanent faculty is based on individual merit and overall score in the interview. After the appointment, the approval is sought from the syndicate of the affiliating university. If number of applicants are in very large numbers than screening test is conducted to shortlist the candidate for an interview.

6.3.8 Industry Interaction / Collaboration

The college has a strong collaboration in terms of MoU with following agencies :
1.   Regional Technical Training Centre, BSNL, Ahmedabad
2.   PDPIAS Charusat,Changa
3.   Anand Agriculture University, Anand
4.   Gujarat Council of Science and Technology, DST, Gujarat
5.   Swiss Glasscoat equipment Ltd., V. U. Nagar
6.   Infinity InfowayPvt. Ltd., Rajkot, Gujarat
7.   Sophisticated Instrumentation Centre for Research and Testing, V. V. Nagar
8.   PhycolincLinc Digital Systems Pvt. Ltd. Ahmedabad, Gujarat

NVPAS has large number of Industry interaction for placement and academic activities for student. Some major partners are listed below:

1.   Life cell Baroda
2.   TCS(Tata Consultancy Services)
3.   Norris Pharmaceuticals, Ankleshwar
4.   Regional Technical Training Centre, BSNL, Ahmedabad
5.   Glenmark Industries, Ankleshwar
6.   TranspeckIndustries,Baroda
7.   Amul Dairy, Anand
8.   Binani Cement
9.   Mastercoat Industries Ltd.

6.3.9 Admission of Students

Students are admitted to the different programmes by adopting following methodology.

(A) Admission to first semester B.Sc.:
      The admission to first semester B.Sc is carried out by the college on the first come first served basis. The admission process starts soon after the declaration of the GHSEB results are out.
      First two semester of the B.Sc. programme has common subjects for Mathematics and Biology group students. The specialized subject is offered in 3_{rd} semester. The students from state board, central board or any other recognized board are eligibile for the admission. The students who passed in 12_{th} science in 'A' group are admitted to first semester B.Sc.Mathematics group, students who passed in 12_{th} science with B group are admitted to first semester B.Sc. biology group, while students passed 12_{th} science with both 'AB' group can be admitted either to first semester B.Sc. mathematics or biology group as per their choice.

(B) Admission to 3_{rd} semester B.Sc.
During the current academic year, the FYBSc admissions were given on the first come first served basis and the principle subject was offered at the SYBSc, Semester – 3 onwards, a separate counselling of students was carried out and the subjects were offered on the basis of merit in the University Exam in First and Second Semester. A separate merit list for mathematics and biology group students are prepared. The merit number of the student is communicated to the parents also mentioning the date and time of counseling. In the admission counseling students are asked to select subject of their choice on the basis of their merit number. Students with Mathematics group are offered Computer Science, Information Technology, Instrumentation, Chemistry, Industrial Chemistry and Mathematics, while students with biology group are offered Biotechnology, Microbiology, Genetics, Bioinformatics Environmental science, Chemistry and Industrial chemistry.
      The college has applied to the university, for the affiliation of two new courses namely, Applied Physics and Applied Mathematics from the academic year 2018-19 onwards.

(C) Admission to B.C.A.

Admission to first semester B.C.A. is also given on first cum first serve basis to those students who passed 12th science, commerce, or arts either from state board or any other recognized board with English as one of the compulsory subject.

(D) Admission to M.Sc. IT (integrated):

College has started five years integrated course in M.Sc. information technology (IT) from June, 2012. Admission to this course is also on first come first serve basis to those students who passed 12th science/commerce.

(E) Admission to career oriented 'add-on' course:

College runs UGC funded career oriented course in 'Process Development in Industrial Biotechnology' from June 2010. This course is available only to the B.Sc. students of the college. There are total 60 seats in this course in which 30 seats are allotted to certificate course (1 year duration) and 30 seats are allotted to diploma course (2 years duration). Admission to this course is also on the basis of first come first serve basis. However students in 5th and 6th semester are eligible only for the certificate course and not the diploma course.

(F) Any other:

    (1)College gives admission to those students who passed supplementary examination up to the month of August of current academic year.
    (2) College gives admission to those students who have some gap in between their studies by submitting the affidavit with the necessary documents.
    (3) College gives lateral admission in 3rd semester of B.Sc. in some courses depending upon the availability of number of seats and permission, and NOC from the alma matter.
    (4) Students are encouraged to join certificate/add-on courses offered in sister institutes of CVM

6.4 Welfare schemes for

Teaching	2
Non teaching	2
Students	3

Providing group insurance facility to all the staff.

YEAR	GROUP INSURANCE AMOUNT (Rs.)
2009-10	88,000/-
2010-11	140,000/-
2011-12	124,500/-
2012-13	126,000/-
2013-14	110,500/-
2014-15	99,000/-
2015-16	106,500/-
2016-17	1,00,000/-

6.5Total corpus fund generated

Rs. 89,02,473 /-

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	------	Yes	CVM
Administrative	Yes	Chartered Accountant firm M/s Apaji Amin & Company and Mr. Kiranbhai F. Patel Company	Yes	CVM

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

For UG Programmes   Yes   [ ]   No   [No]

For PG Programmes   Yes   [ ]   No   [No]

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

The University Examination Reforms Unit takes care of the exam related issues and in consultation with the affiliated colleges and departments introduces new practices time to time. The students who have not cleared the university examination and if they apply for reassessment then they are first shown their answer sheets before proceeding for reassessment.

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

Yes. University provides autonomy for conducting university practical exams as per the college schedule and also the exams for COC.

6.11 Activities and support from the Alumni Association

The College has a strong bond with the Alumni. The members of the Alumni Association take interest in the progress of college and participate in various activities of the college throughout the year in the following way:
➢ Helping in planning and execution of various activities of Madhyastha Samiti
➢ Contributing books in book club
➢ Delivering Expert lectures
➢ Arranging for the Campus interviews for the students
➢ Creating facilities for institute.

6.12 Activities and support from the Parent – Teacher Association

The College organizes parent, faculty and student meeting called Open House, once in a semester after the results of few unit tests are available. Invitation letters to parents are dispatched in advance and the letter has details regarding the date, venue and result card of their wards with special mention about the highest marks scored in each subjects. Open house is organised on week end and teaching faculty are allotted duties in specific class room based on the subjects taught by them. Registration committee welcomes parents with their wards and are given the merit number of their ward with average of attendance. Parents with their ward then visit each subject teacher and counsellor for direct interaction, for observation of answer sheets, for remedial measures.

6.13 Development programmes for support staff

- With an aim to enhance the proficiency of the non-teaching or laboratory staff, the college conducts various activities and programme in and outside the college. Also the staff members are encouraged to develop their skills and knowledge in various ways. Some of them are as follows:
- Non-Teaching staffs are encouraged to attend seminars concerned to their subject and occupation.
- Organising training for handling computer and using different software associated to their work especially for library and office staff.
- Providing training to the College office staff to use tally software.
- The college librarian is skilled with the uses of SOUL software for maintaining all records of books/magazines properly.
- The administrative and supporting staff is trained to use new machines and equipment like Photocopier, Printer, Scanner etc.
- Trainings are organized to update all laboratory assistant regarding new instruments and new practical course curriculum.

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

Institution has taken various initiatives to make the campus eco-friendly:
- Energy consumption in classroom, laboratories, auditorium, corridors and quadrangle is closely monitored. Students are instructed to switch off the power immediately after classes or labs are over.
- In order to reduce the electricity consumption the walls of classrooms and labs are painted with lighter shades.
- The discipline committee and student representatives ensure that the classrooms and campus are kept clean. Dust bins are kept at all places to maintain cleanliness.
- Nature club of college organizes various programmes to spread awareness about environmental pollution and preventive measures among students and society.
- The Carbon Foot-print Club(CFC) aims at spreading awareness among students and society regarding the emission of Carbon Dioxide and knowing their own carbon foot print. The club has replaced many CFL bulbs with the LED bulbs during the current academic year.

Criterion – VII

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.**
●	*Genequest-2017* - The Department of BT, GT, BNF organized State Level Intercollegiate Competition on 7th January, 2017. The event had various activities like quiz, oral presentation, poster presentation, scitoons by students from all over the state. Such caucus will help us in better cooperation amongst the various institutes and the students will gain by the interaction and it will pave the way for the overall development of the students.
●	N-BT-CBC crash workshops are organized regularly twice a year, but from this year a separate batch for SYBSc was also held with an aim to give training on basic science. And now at TYBSc they will be exposed to advanced studies for better and in-depth knowledge of the subjects being taught to clear their national level entrance exam for their higher studies.
●	The Certificate course on 'Tools and Techniques in Molecular Diagnostics' run by the department since 2015-16 has been completed successfully this year, too. 28 students from different streams enthusiastically participated in the course.
7.2	**Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year.**
	Most of the planned programmes were executed.
1	Autonomy was not feasible
2	Renovation of Chemistry Lab
3	E-learning was strengthened through effective use of Moodle, Flint and ERP
4	Initiation of Skill Development Programmes
●	A skill development programme was organized for students of TYBSc on 'Mushroom Cultivation' where hands-on training was given by the expert Dr. Mrugesh Shukla from Gujarat University, Ahmedabad. Such programme will bring an interest in the subject to be applied for entrepreneurship.
●	With a view to enhancing employability of the students of NVPAS, the department of English conducted a Two-week short-term course as a part of Skill Development Programme for all the students of Second year BSc. The students were oriented about Job Application and Resume Writing and Interview Skills during this programme.
7.3	**Give two Best Practices of the institution** *(please see the format in the NAAC Self-study Manuals)*
	Best Practices - ERP System: This practice has been initialized to govern college academic processes such as Admission process, student's fees collection, internal marks, student's attendance, and mentoring. This is the centralized system, which is accessed and used by the Principal Sir, HOD's, faculty members, counsellors, and office staff. The ERP is developed by Mr. Ghanshyam Parmar, and maintained by Mr. Ghanshyam Parmar, Dr. Chetan Dudhagara, and Mr. Ranubha Gohil.

Goals:

- To have centralized data of student information.

- To have centralized data related to exam.

- To ease the counselling system through the usage of ICT.

- To have easy access to fees related information.

Context:

The ERP system was developed at initial stage and implemented from the academic year 2016. Gradually new features were included in the system, and Principal, HOD's and faculty members had appreciated the system.

Practice :

- To make information centralized, so access by everyone who have permission.

- To allot "Unique Number" to student to uniquely identified by his / her admission year and subject.

- To search fees information of students within few minutes.

- Marks of various examinations entered by subject faculty only, so no misplaced entry is created.

- Councellor can view marks of exams online, not required to collect mark sheets from individual subject teacher for viewing performance.

- Just click and generate student's report card, to send their parents by post, with postal address.

- Principal of the college can view the academic performance of any student by searching by their name or by class, semester and roll number.

- Head of the department can view the academic progress of their department's students only. They are also the subject teacher, so they can enter marks of their subjects.

Evidence of Success:

- Throughout the academic year 2016-17 the system was used successfully to enter student information, internal marks, attendance and computerized reports related to student information, mark sheets were generated.

Problems Encountered :

- Nil

Title of the Practice: Advanced Learner Cell

In current trends of Information Technology students need to be updated with the latest technologies. And as a part of overall improvement of student to be ready as per needs of industry, department have started a Cell called "Advance Learner Cell" which organizes different activities like seminar, workshops, expert talks beyond the syllabus throughout the year. This process helps the students as well as faculty members to learn the practical aspects of content delivered and improve the presentation skills.

Goals:

- To Impart and execute latest technologies in Information Technology.
- To increase student's critical skills.
- To learn IT content beyond syllabus,
- To update the knowledge of student about industry requirements.
- Give chance to faculty member to organize seminar, workshop & learn concepts of the subject to gain more expertise.
- To build better relationship between college and industry.

Context:

When students join IT course in college they are not aware of all the technology in the field. But they come to know about the subjects when they learn those subjects in the class. As the syllabus may not cover all the content required and trends are changing very fast. Department thought to implement a Cell which can provide a platform to students which can enrich their knowledge and can help them upgrade their knowledge before entering the job-market. It is generally observed that when students join any job or industry after post-graduation, they are found unaware of professional environment and latest trends of the industry. To cater their needs, this cell organizes different kinds of seminars, workshops etc. to help students provide better understanding of the issues mentioned above.

Practice:

As per the requirement of industry, department conducts or organizes such events. The department tries to know from students the latest technology or innovations in their concerned fields. After this exercise, faculty members themselves or from their contacts in the relevant industry organize seminar, workshop and other events for the students. After inception of this cell 13 different activities have been organized and students have been benefited with these activities.

Evidence of Success

No	Event	Expert	Date Year
1	Workshop on Oracle Application Express- A Rapid Application Development Tool & Unity Game Engine.	Mr. DigvijayVirpura , NVPAS Mr. Ranubha Gohil , NVPAS	2014-15
2	Workshop on "Advanced Controls of VB.Net"	Dr. Bharat Patel, Associate Professor, G. H. Patel Department of Computer Science	2014-15
3	"Advanced Controls of ASP.Net with C#"	Dr. Bharat Patel, Associate Professor, G. H. Patel Department of Computer Science	2014-15
4	Seminar on Google Search Engine Techniques	Mr. DigvijayVirpura , NVPAS	2015-16
5	Workshop on Basics of Networking	Ms. Shreya Bhavsar, NVPAS	2015-16
6	Teacher Training Programme at Annual NSS Camp at "Dehmi"	Mr.Ranubha Gohil, NVPAS Ms.Monika Patel, NVPAS	2014-15
7	Teacher Training Programme at Annual NSS Camp at "Alarsa"	Dr.Chetan Dudhagra, NVPAS Mr.Mayur Patel, NVPAS	2015-16
8	State Level Workshop on "Mobile Application Development Using Android Technology" in association with Computer Society of India Vallabh Vidyanagar Chapter.	Mr.DigvijayVirpura, NVPAS Mr.Ranubha Gohil, NVPAS	2015-16
9	Seminar on Google Search Engine Techniques	Mr. DigvijayVirpura , NVPAS	2016-17
10	Seminar on .NET with Wordpress	Mr. Alpesh Patanwadiya, TOPS Technologies	2016-17

11	Seminar on Angular JS	Mr. Gosai Bhadresh, TOPS Technologies	2016-17
12	Seminar on GIS	Dr.Chetan Dudhagra, NVPAS	2016-17
13	Workshop on Web Development using Wordpress	Ms.Shreya Bhavsar, NVPAS	2016-17

Problems Encountered: Nil

7.4	**Contribution to environmental awareness / protection**

- **Activities of Nature Club:**

  - As a part of Van Mahotsav Dr. P. Manivel of DMAPR, Boriavi delivered a talk on Medicinal Plants on 27th July at a programme organized by Nature Club. Tree plantation was also done in the library campus.
  - Save Tigers Day was celebrated by Nature Club on 29th July. A Poster-Making Competition was organized.

- **Activities of Carbon Foot Print Club:**

  The Composting activity was initiated by Carbon Foot Print Club on August 13, 2016 with a view to recycle the organic matter (fallen leaves, grasses, papers etc.) of college campus which can be used as fertilizer.

  This activity is requires collection of waste from different sources at regular interval and monitoring of compost pit which serves as an example of organic farming method in the town. Additionally, it will be an effective method of recycling.

  ➤ **Day celebration:**
  (a) **The pledge-taking**

  The Pledge-taking activity was held by Carbon Foot Print Club on June 24, 2016 with a motive to encourage the students towards carbon emission reduction. More than a hundred students of NVPAS took pledge to reduce their carbon footprint by trading their lives to austerity. This activity was planned to inculcate the idea of living an environmental friendly life. Furthermore, faculty members also showed their admiration and encouragement for this activity

  (b) **World Population Day Celebration**

  The world Population day was celebrated by Carbon Foot Print Club by arranging guest-lecture and competitions 11.07.2016. Dr. Vahida Thomas- Senior faculty from SEMCOM was the keynote speaker of the event. She gave a comprehensive PowerPoint Presentation on the pressing issue of overpopulation. During debate competition and a slogan-making competition, following issues were elucidated by participants:

  One-child Policy

  Sex-selective abortion/Female Foeticide

  Family Planning

Ms. Shimpa Sharma, Mr. Shrey Rakholia and Ms. Dhrusha Jani were the winners of Debate competition whereas in slogan making completion winners were Ms. Roshni Mahida, Mr. Hemal Patel and Mr. Ravi Amipara.

(c) Carbon day observance

On the occasion of Carbon Day, the Carbon Foot Print Club organized a seminar, poster exhibition and quiz competition 15.09.2016. The chief guest of the function was Mr.Krishna Kant Amin, a prominent environmentalist. He was honored by Principal Dr. Basudeb Bakshi and the Club Co-ordinator Dr. Rita N. Kumar for his great efforts for environmental conservation at local level. Other invited dignitaries were Mr.Jayantibhai Patel from GIDC, NSS unit Coordinator Dr.Yogesh Patel, and Vice President of the College Central Committee- Mr.Kartik Jagtap. CFP Club Secretary Ms. Bhumi Patel gave a brief introduction about the club followed by a power point presentation by President Shrey Rakholia on Greenhouse gases emissions and climate change. Mr.Jayantibhai Patel discussed the necessity of Sustainable Development. Principal Dr.Basudeb Bakshi, Dr.Yogesh Patel, Mr.Kartik Jagtap and Dr. Rita N. Kumar also addressed the gathering. The Convener of the Committee of Leadership and Training, Ms.Kanishka Thakur proposed vote of thanks. It was followed by quiz competition.

(d) Presentation on the preservation of ozone layer

The Convener of the Committee of Outreach Program of Carbon Foot Print club, Ms. Aishwarya Patel organized a presentation for the students of V & C Patel English School on topic of 'Preservation of the Ozone Layer' on 17.09.2016.

Joint Secretary Mr. Hemal Patel and the Convener of the Committee of Archives & Records Ms. Roshni Patel gave a power point presentation to the students of the school for creating awareness regarding preservation of Ozone layer.

The club received a 'Thank you' card from the school and the school appreciated the club's efforts to bring awareness in school students regarding environmental preservation.

(e) Wetland day celebration

World Wetland Day was celebrated on 2nd February 2017 at Pariej wetland. As invited by GEER foundation and Forest Department,18 students took part in celebration. The team was led by Dr. Rita N Kumar and Ms. Rashmi Thakkar.

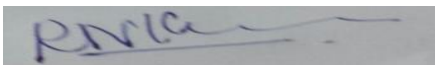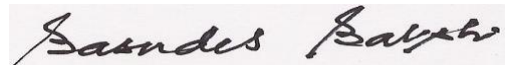|	
•	A Drama with a theme on 'Conservation of Earth' was prepared and presented on Talent evening on 22nd Feb 2017 by the volunteers of Carbon Foot Print Club.
7.5	**Whether environmental audit was conducted?** Yes
7.6	**Any other relevant information the institution wishes to add. (for example SWOT Analysis)**
	Strength

	• Competent, veteran and devoted staff • Keen interest of the management in the growth of the institution • Healthy teacher-taught relationship • Enriched library with internet access
	Weakness
	• Lack of time is the biggest constraint in semester system
	Opportunity
	• To become an autonomous institution • To have linkages with industries for training of students • To start a bridge course for the newly enrolled students to make students of vernacular medium cope with change in the medium of instruction
	Threat
	• Trainee teachers and administrative staff for handling diversity of students. • Academic quality enhancement. • Inadequate funds for infrastructure development

Name: Dr. Rita N. Kumar

_____

Signature of the Coordinator, IQAC

Name: Dr. Basudeb Bakshi

_____

Signature of the Chairperson, IQAC

Annexure-I

N.V. PATEL COLLEGE OF PURE & APPLIED SCIENCES

27-06-2016

ACADEMIC CALENDAR 2016-17

(B.Sc./B.C.A./M.Sc. (CA & IT) – Odd Semester)

Semester	: 13.06.2016 to 03.12.2016
Unit Test	: Commencement from 18.07.2016
Open House	: 07.08.2016
Preliminary Theory Exam	: 26.09.2016 to 01.10.2016
Practical Internal Exam	: 03.10.2016 to 08.10.2016
University Theory Exam	: 14.11.2016 onwards
Diwali Vacation	: 24.10.2016 to 12.11.2016

* Above schedule is subject to change as per university circular.

(Basudeb Bakshi)

PRINCIPAL

N.V. PATEL COLLEGE OF PURE & APPLIED SCIENCES

15-12-2016

ACADEMIC CALENDAR 2016-17

(B.Sc./B.C.A./M.Sc. (CA & IT) – Even Semester)

Semester	**:** 05.12.2016 to 22.04.2017
Unit Test	: Commencement from 09.01.17 (For FY) 17.01.17 (For SY & TY)
Open House	**:** 29.01.2017
Practical Internal Exam	**:** 27.02.2017 to 04.03.2017
Arrear Theory Exam	**:** 06.03.2017 to 09.03.2017
University Theory Exam	**:** 27.03.2017 onwards
Summer Vacation	**:** 24.04.2017 to 10.06.2017

* Above schedule is subject to change as per university circular.
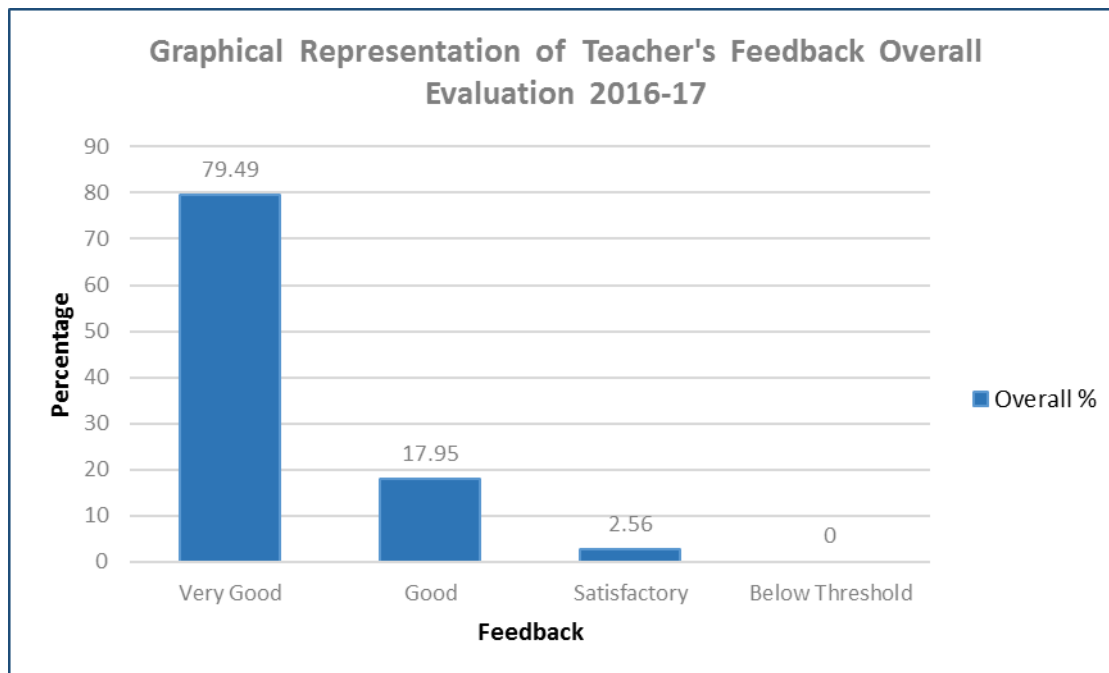
(Basudeb Bakshi)
PRINCIPAL

Annexure-II

An Analysis of the teacher's feedback: Overall Evaluation: 2016-17

Department Name		Very Good	Good	Satisfactory	Below Threshold	TOTAL
Microbiology		2	1	0	0	3
Physical Science		5	1	0	0	6
Mathematics		4	1	0	0	5
Computer Science		8	1	1	0	10
BT / GT / BNF		4	1	0	0	5
Chemical Science		3	2	0	0	5
Biological Science		5	0	0	0	5
	Overall %	79.49	17.95	2.56	0	100

* refer to multiple responses given in the feedback forms.

An Analysis of the feedback: Stakeholders' Overall Evaluation: 2016-17

Feedback By	Feedback on	Very Good	Good	Satisfactory	Below Threshold	TOTAL
Students	Teacher	31	7	1	0	39
Students	Curriculam	28	13	4	1	46
Students	Programme & Teaching	22	9	3	0	34
Students	Overall ratting of Programme & Study	18	6	2	0	26
Graduating Students	Exit Questionnaire	19	7	2	1	29
Stakeholders	Overall	118	42	12	2	174
	Overall %	67.82	24.14	6.9	1.15	100

* refer to multiple responses given in the feedback forms.

Graphical Representation of Stakeholders' Overall Evaluation 2016-17