

**The Annual Quality
Assurance Report (AQAR)
of IQAC
(2009-2010)
(1st Annual Report)**

Submitted by:

**Natubhai V. Patel college of Pure and
Applied Sciences (NVPAS)
Accredited “A” Grade by NAAC
Vallabh Vidyanagar-388 120
Dist. Anand, Gujarat.**

www.nvpas.org.in

Name of the Institution: - Natubhai V. Patel College of Pure and Applied Sciences, Vallabh Vidyanagar, Gujarat (Year-2009-10)

Part-A

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

Goals and Objectives for academic year 2009-2010

- I. Faculty Development Programs :
- II. Updating of present system by introducing Semester system and CBCS system
- III. Updating of basic infrastructure facilities
- IV. Updating of IT based program
- V. Student Development Programs

Part B:

❖ **Activities reflecting the goals and objectives of the institution:**

To achieve the goals and objectives of the institution, the following activities are carried out:

I. Faculty Development Programs:

1. The National and State level seminars and workshops were organized and hosted by various departments of our college in order to keep the faculty well abreast with the latest developments in their subjects
2. The faculty members were also encouraged and permitted to participate in other similar academic events such as symposia, conferences, workshops etc. across the country by presentation of their research work.
3. The faculty members also published good number of research papers in journals of National and International repute.

II. Updating of present system by introducing Semester and CBCS system

The present yearly system was decided to change into semester system from next academic year. Exhaustive, untiring efforts were made for deciding the structural framework and curriculum design in various academic body meetings held throughout the year. The vigorous exercise to reframe all subject syllabi of First year B.Sc. and B.C.A. in context with semester system was undertaken. The college faculty members working as Board of Studies members were assigned special responsibilities to carefully work out the details of course curriculum. The Core, Elective and ICT based courses along with credit structure and course curriculum were also worked out.

III. Updating of basic infrastructure facilities

The institution became equipped with additional infrastructure facilities this year. The long awaited planning of Language Labs was fulfilled by newly constructing two Language Laboratories. An Auditorium with 250 intake capacity, with updated sound and audio visual systems and air-conditioning was also prepared and dedicated to Institution by Charutar Vidyamandal.

IV. Updating of IT based program:

- The college has adopted a latest IT device in form of Wi-Fi system for its campus. This facilitates the Internet availability in college campus and library campus for staff as well as students.
- Three routers are installed on the college building and one on the Library premises for better connectivity of Wi-Fi (cost Rs. 1,25,442/-)
- Two Computer labs are upgraded by replacing 70 personal computers (Cost Rs. 14,42,000) with configuration mainly of 18” LCD Monitor, Intel core 2 duo, 2 GB RAM, and 160 GB HDD.
- Two computers for master console are placed in Language Labs (cost Rs. 56,000/-)
- Department of Mathematical Sciences is provided with LCD Projector.
- Three Panasonic LCD Projectors (High Gain Screen) are installed in Auditorium and two Language Labs (cost Rs. 1,34,400 /-)
- Two Sony LCD Projectors are allotted to Computer Sciences Department (cost Rs. 76,800/-)

VI. Student Development Programs:

1. Weekly practice tests for all subjects and for all students every Saturday.
2. Personality Development Classes for all students
3. Co-curricular and extra-curricular activities for students under Student Central Committee (Madhyastha Samiti) and NSS/NCC.
4. Organizing seminar/ quiz competition/paper presentation/ hands on training/ special lectures for Students
5. Imparting special coaching to the students to prepare for various competitive exams after graduation through EEPC (Entrance Exam Preparation Cell)
6. Smooth conduction of compulsory Remedial classes for slow learners of first year and need based for Second year students of various streams.
7. Home assignments for slow learners
8. Crash course for weak learners of F.Y.B.Sc.and F.Y.B.C.A. students of Biology and Mathematics.
9. N.V. Patel college has been made Wi-Fi campus to ensure more use of Computer aided learning for students
10. Field visits for First year, Second year and Third year students.
11. Scholarship to needy students.

❖ New academic programmes initiated (UG and PG):

Proposals for the sanction of new Career Oriented Certificate Courses in Mathematics, Physics, Chemistry, Biology, Microbiology, Biotechnology, Computer Science and English are submitted to the UGC during this academic year.

❖ Innovations in curricular design and transaction:

College is going to have pragmatic shift from annual system to Semester system and Choice Based Credit System (CBCS) in the coming academic session June 2010.

❖ Examination reforms implemented:

The College has remarkable machinery for continuous evaluation of the students. At the end of the first term and the second term, examinations were conducted as per the university examination pattern. Practice tests were also conducted regularly on weekly basis. This process of continuous evaluation created an open forum for parents and tutors/class teachers

for discussion on the performance of their ward. This discussion enabled the students to be more serious and responsible in their academic matters.

Keeping in mind the difficulties of late admitted students, the institution has conducted an additional first internal examination for such students in Dec'09.

The college also conducted a special Crash course for a period of one week after both internal examinations followed by special examination in order to prepare the weak learners for improvement in university exams.

❖ **Candidates qualified: NET/SLET/GATE etc.**

NET	2	2009-10
GATE	6	
JRF	7	
GRE	3	
TOFEL	2	

❖ **Initiative towards faculty development programme:**

(A) PARTICIPATION OF FACULTY MEMBERS IN SEMINARS / WORKSHOPS / CONFERENCES IN YEAR 2009-10.

Total 28 staff members participated in various National and State level seminars / workshops / conferences.

(B) Faculty Completed Ph.D./ M.Phil. :

Ph. D	M. Phil
Physics- 2	Physics -1
Genetics – 2	Computer Science- 6

❖ **Total number of seminars/workshops conducted:**

Seminars: 5 , Workshops:2 , Orientation Program for students : 1

Quiz : 1, Paper presentation competition: 1

- 1) The Dept. of **Biological and Environmental Science** organized a one day **National seminar** for the faculty members of various disciplines of life sciences on 19th December 2009 on **“New Frontiers in Life Sciences.”** Dr. Santram, Director MNRE, New Delhi was the Chief Guest of Seminar. The resource persons for the seminar were Prof. B.C. Tripathy, Professor, JNU, New Delhi, Prof. Utpal Tatu, IISC, Bangalore, Dr. Surendra Ghaskadbi, Agharkar Research Institute, Pune, and Dr. Nayana Patel, a renowned Gynecologist, Anand. About 300 delegates from all over the state had participated in the seminar.
- 2) RC²EOS09: A two day **National seminar** entitled **“Research in Chemistry at the Crossing Edge of Other Sciences: RC²EOS-09”** was organized by the **Department of Chemistry** on 8th and 9th November 2009. Sir Shantiswaroop Bhatnagar prize awardee Prof. S R Gadre, Prof. Akamanchi- Dean Pharmaceutical Chemistry-UDCT,

Mumbai, Prof. Ramesh Venkatraman, Prof. D. B. Chokshi and Prof Pradip Patel delivered expert talks on topics like computational chemistry, Pharmaceutical Chemistry, Cheminformatics, Biotechnology and Nanochemistry. Three hundred delegates and researchers from different states participated in this seminar. Proceedings including about 30 research papers was published on this occasion.

- 3) The **Physics department** organized a one-day **seminar** on “**Energy Conservation : Scope & Challenges**” on 14th December 2009 in collaboration with C. C. Patel Community Science Centre, Sardar Patel University on account of the National Energy Conservation Day Celebrations. Dr. S. K. Nanda, Principal Secretary, Forest and Agriculture Department, Govt. of Gujarat delivered his key-note address on the topic and enlightened the student and staff. On this occasion, a district level oral presentation and poster presentation competitions were also organized, in which 142 students from various science colleges of Anand district actively participated.
 - 4) A one day **seminar** entitled “**wings of chemical science**” was organized by **Chemistry Department** on 21st January 2009. Dr. B.R.Patel, ex-principal, NVPAS, Dr. P A Hassan, Scientist BARC-Mumbai, Prin. R. P. Patel, Secretary CVM, Mr. Mansukh Vekaria- MD ARAIL, Mr. Rajubhai Patel- MD Jackson Industries, Mr. D. Chakraborty- Production Manager, Berger Paints and Dr. Atul Raja- Sr. R&D Manager, Solvay Specialities along with several renowned Professors from various institutes were the resource persons. Three hundred student delegates participated in this seminar.
 - 5) **Department of Mathematical Sciences** organized a one day **seminar** on “**Applications of Mathematics and Statistics**”, held on 11-01-2010, Monday. 21 students have given the presentations and more than 300 students have attended.
 - 6) **Department of Biotechnology, Genetics and Bioinformatics** organized a Three days **workshop** on “**Tools and Techniques in Bioinformatics and Molecular Biology**” from 4th - 6th December, 2009. Mr Niraj Kumar and Mr Amit Rai from Xplorigen pvt Ltd New Delhi were the resource persons for this workshop. Ms. Yachana Jha convener; Mr Amit Ballani Co-ordinated and Mr. Kundan Kumar Mishra served as Organizing Secretary of the workshop. There were total 88 participants including faculties, researchers and students from Gujarat and Maharashtra.
 - 7) A workshop on “**Dot-net and Oracle 10g**” was organized on August 03, 2009 by **Department of Computer Sciences**.
 - 8) English Dept- In order to help the students preparing for various competitive exams like GRE, GMAT, CAT etc. the college, with the help of H. M. Patel Career Development Centre, the sister institute of Charutar Vidya Mandal, conducted an Orientation Programme on “Group Discussion and Mock Interview” exclusively for the Third Year B. Sc. and B.C.A. students on Sunday, 20- 12- 2009.
 - 9) The department of Chemical Sciences organized a state level chemistry quiz on 09-09-09. Sixteen teams from different colleges of Gujarat participated. The students of NVPAS secured first and third positions at the same.
 - 10) The department of chemical sciences organized a paper presentation competition in September 2009
- ❖ **Research projects:** Two major research projects each from UGC and ISRO and 12 minor research projects from UGC were received.

❖ **New collaborative research programmes:** A collaborative research programme has been initiated this year. Our department of Microbiology has collaborated with Microbiology Department of Delhi University. One research student works in this joint venture program.

❖ **Research grants received from various agencies: (Year 2009-10)**

An amount of Rs. 27,86,829/- has been received for research projects funded by different agencies for current year.

❖ **Details of research scholars: List of the Research Students registered for Ph.D. in the Department:-**

Sr.No	Department	Name of Guide	No. of students
1	Bio. & Env. Science	Dr. Rita N. Kumar	6
2	Microbiology	Dr. A. Gupte	6
3	Chemistry	Dr. Ketul Patel	3
4	Chemistry	Dr. Vasishta Bhatt	2

❖ **Citation index of faculty members and impact factor:**

The faculty members have published 39 research papers in various journals of International and National repute.

❖ **Honors/Awards to the faculty:**

International : 1

National : 2

State level : 1

❖ **Community services:**

The community services are taken care by NSS wing of our institution following is a brief report of activities done during the year 2009-10:

- 1) A blood donation camp (emergency) was organized on 1st of August, 2009 in which 17 unit of blood was donated to A. D. Gorwala blood bank, Karamsad.
- 2) A blood donation camp was organized on 20th August, 2009 in collaboration with A. D. Gorwala blood bank in which total 139 unit blood were collected.
- 3) Five students of the college participated in three days training program of Red Ribbon Club organized by A. D. Gorwala blood bank & Gujarat State Aids Control Society at Karamsad from 8th to 10th September, 2009.
- 4) In order to create public awareness about the havoc of Swine Flu, a talk on Swine Flue by Dr. Prakash Gajjar was arranged for the people of Alarsa village. A blood donation camp was also organized in the village on 10th of September 2009.
- 5) A counseling and iron tablets distribution for anemic ladies of the Alarsa village was done on 10th of September 2009.
- 6) An educational visit to ISRO & science city at Ahmedabad for the pupils of Shree Murlidhar Vidyamandir, Alarsa was organized on 29th September, 2009.
- 7) The world Aids Day was celebrated on 1st December, 2009 in which a rally was organized by N.S.S. volunteers for the awerness in youth.

- 8) A one day camp at Alarsa village on 11th December, 2009 was organized in which 95 students participated along with 4 faculty members.
- 9) Mr. H. N. Parekh, P. O., lead the team of students of various colleges representing Sardar Patel University to participate in CHETNA SHIBIR as a celebration of SWARNIM GUJARAT held at DHORDO in kutchh district from 8th dec. to 12th Dec. 2009.
- 10) A blood donation camp and Thalassemia checking programme was organized on 7th January,2010 in collaboration with Indian Red Cross Society, Anand in which total 96 unit blood was collected and 68 students were examined for Thalassemia checking.

❖ **Teachers and officers newly recruited:** Lecturers – 3

❖ **Teaching –Non teaching staff ratio:** 1.5:1

❖ **Improvements in the library services:**

Barcoding of all the library books was undertaken. During next session, (i.e. from June-Aug 2010) the NVPAS library will start circulation by barcode system at testing level.

Library staff improve themselves by attending training program, workshop etc.

Usage of library by using books or periodicals is extended by Internet or e-resources by providing Wi-Fi facility in the library and surroundings of the library area, through which our students and staff can access their information by using his\her laptop.

❖ **New books/ journals subscribed:** Books – 136, Periodicals - 57

❖ **Courses in which student assessment of teachers is introduced and the action taken on student feedback:**

Teachers' assessment by student feed back is regular feature of institution. It is carried out for all courses by random selection of students from various courses. The prescribed format is filled by the students which are assessed by Principal. Necessary steps are taken by Principal towards the upliftment of programme.

Student Feedback	Number of feed back	%
VERY GOOD	44	60%
GOOD	27	36%
SATISFACTORY	1	1%
UNSATISFACTORY	2	3%
TOTAL FEED BACK	74	

❖ **Unit cost of education:**

(i) B.Sc. Program (2009-10) Rs. 27,347/-

(ii) B.C.A. Program (2009-10) Rs. 29,673/-

❖ **Increase in the infrastructural facilities:**

The college has enhanced its infrastructural facilities remarkably.

- A well designed air conditioned Auditorium with 250 sitting capacity, has been constructed above the library building. This solves the purpose of holding various

academic, co-curricular and extra curricular activities at ease. The auditorium is also made available for the use by sister institutions on rent basis.

- This year, with the financial support from management, the institution has got an additional facility of two Language Laboratories for English Department above the library building. Each laboratory is equipped with LCD Projector, Personal Computers and Headphones for a capacity of 36 students.
- Department of BT/ GT/ BNF are furnished with equipments like Laser Jet Printer and Centrifuge.

❖ **Technology up gradation:**

- The college has adopted a latest IT device in form of Wi-Fi system for its campus. This facilitates the Internet availability in college campus and library campus for staff as well as students.
- Three routers are installed on the college building and one on the Library premises for better connectivity of Wi-Fi (cost Rs. 1,25,442/-)
- Two Computer labs are upgraded by replacing 70 personal computers (Cost Rs. 14,42,000) with configuration mainly of 18” LCD Monitor, Intel core 2 duo, 2 GB RAM, and 160 GB HDD.
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❖ **Computer and internet access and training to teachers and students:**

For teachers: Two training programs

For students: Two training programs

❖ **Financial aid to students:**

Thirteen students have been provided with various financial aid of Rs. 2,87,166 /- from different agencies.

❖ **Activities and support from the Alumni Association:**

1. Annual meeting of the NVPAS ALUMNI ASSOCIATION was held on 14th December, 2009. About 100 alumni attended this meeting. New executive committee for next three years was elected.
2. Farewell party for outgoing batch of B.Sc. and B.C.A. was held on 5th March, 2010. The students were blessed and enlightened about the prospects for higher study and job.
3. Alumni Association of the college under the president-ship of the Principal Dr. Bakshi and Vice-President Dr. V. D. Bhatt felicitated ex-students who made significant achievements.

4. A user group named nvfriends@yahoo.com has been created since More than 200 students are active in this group.
5. A new community named “NVPAS Alumni Association” is created on orkut.com. More than 500 alumni have already joined this community
6. **Guest lectures:** Successful alumni are invited to deliver a talk for the current students.

❖ **Activities and support from the Parent-Teacher Association**

The institute has a strong interaction forum in the form of counseling system. Constant feedback and suggestions are received from the parents which are put to good use. Apart from the regular and informal interaction with parents through phones or letters, the college has spared apart two days in academic schedule for **OPEN HOUSE** activity where direct interaction of parents with faculty and Principal is organized. The Open House is called after the declaration of first internal examination results in month of December. This year Open House was called on 14th and 15th November, 2009. The parents were informed about the students by sending letters. More than 250 parents remained present during Open House. The academic progress of student in each subject was discussed by concerned faculty members with parents by showing answer sheets and useful concrete suggestions and guidelines were provided to students and parents for improvement. There was a tremendous response from parents. Letters from parents appreciating the institutional efforts, boost the morals of faculty to march ahead towards goal of achieving cent percent success.

❖ **Health services:**

NSS: The NSS wing of the college organized various student welfare activities in the college as well as in the adopted village Alarsa.

On campus

- A blood donation camp and Thalassemia checking programme was organized on 7th January, 2010 in collaboration with Indian Red Cross Society, Anand in which total 96 unit blood were collected. Faculty members and 68 students had undergone Thalassemia checking
- A blood donation camp (emergency) was organized on 1st of August, 09 in which 17 unit of blood donated to A. D. Gorwala. blood bank, Karamsad
- A blood donation camp was organized on 20th August, 2009 in collaboration with A. D. Gorwala blood bank in which total 139 unit blood were collected.
- The world AIDS Day was celebrated on 1st December, 2009 in which a rally was organized by N.S.S. volunteers for the awareness in youth.

Off Campus

- Five students of the college participated in three days training program of Red Ribbon Club organized by A. D. Gorwala blood bank & Gujarat state AIDS Control Society at Karamsad during 8th to 10th September 2009.
- A talk on **swine flue** by Dr. Prakash Gajjar was arranged for the people of Alarsa village and a blood donation camp was also organized in the village on 10th of September 2009.

- A counseling & iron tablets distribution for anemic ladies of the Alarsa village was done on the same day.

The Women Development Cell :

NVPAS women Development Cell had organized an informative talk by Dr. Vibhuti Shah M.D. (Med), Public Health Officer, Vadodara Municipal Corporation on Friday, 11th December, 2009.

The talk was arranged in two sessions covering almost 250 girls students. Topic of the talk was “Women Health and Related Issues”. All the problems related to physiology of women were discussed very systematically. More emphasis was laid on positive health Management in day to day life. How women can maintain health and hygiene and help the family was also discussed. All the lady staff members had attended the talk. At the end of each session there was interaction between students and Dr. Vibhuti Shah which turned out to be very fruitful and enlightening.

❖ Performance in sports activities:

This year (2009-10) 300 students had registered for physical training which is one of the three compulsory subjects to be obtained by First Year B.Sc. and B.C.A. Students. Our students actively participated in various sports activities like inter-class cricket and inter class volleyball tournament and also university level tournament.

- Our college Team has become the University Champion in Volleyball (Girls) Tournament, Runners up in Basketball (Girls) Tournament, YMCA Runners-Up in Volleyball (Girls) Tournament, and University Runners Up in “Hand Ball” Girls on 2nd February, 2010.
- Our college became runners up in the **Volleyball** State Level Competition organized by Swarnim Gujarat Saptadhara Sports Competition.

Inter University Tournament: -

The Following Students of our College Represented Sardar Patel University in the West Zone Inter University, West & South Zone Inter University and all India Inter University Tournaments in different games.

Table Tennis	:	Patel Sheena, Bhatt Kinjal
Volleyball	:	Joshi Pooja, Panchal Purvi, Rathod Ajay
Chess	:	Kapoor Rohan
Basketball	:	Bhadiyadra Bansari , Garwasis Nimisha,Zala Nihi, Joshi Disha
Kabaddi	:	Patel Dhara, Patel Sunny
Football	:	Prajapati Sachin, Parmar Romil, Lokraj Jaydev, D’Costa Daniel
Atheletics	:	Patel Priyank

❖ Student achievements and awards:

1. Two students Mr.Nisarg Chaudhari and Ms. Madhukumari participated in YUVA Meet 2010 organized by TERI (The Energy and Resources Institute), New Delhi from 2-3 February, 2010 at British Council.
2. Mr. Bhavik Patel and Ms. Hiral Patel of TY Biotechnology got first and second rank respectively in a National level '**Biotechnology Aptitude Test**' organized by International Journal of Pharmaceutical Research. They received cash prize of Rs 5100/ and 2100/ with a certificate.
3. Ms. Richa Patel student of T.Y.B.Sc. Biotechnolgy secured second position in national level Essay competition organized by Bhabha Atomic Research Institute, Mumbai. She received a certificate and cash prize of Rs. 10,000/.
4. Under Science perfection programme organized by Gujarat University, GSBTM and GUJCOST Ms. Jamuna from S.Y.B.Sc. Biotechnology won first prize in quiz competition at both inter university level and intra university level, Mr Mayank Pansuria from S.Y. Genetics won first prize in poster making competition at intra university level. They received cash prize of RS 1000/ in each competition with a certificate and trophy.
5. Our students participated in the event of Science Excellence organized by Gujarat University where 17 colleges from eight Universities participated our students bagged 6 prizes amongst 7 prizes for college.
 - a. Mr. Aayush Gupta from T.Y.B.Sc Biotechnology got first prize in oral presentation
 - b. Ms. Sharmi Nath got first prize in poster presentation.
 - c. Ms. Chandni desai S.Y.B.Sc. Biotechnology got first prize in poster presentation
 - d. Ms. Charmi and Ms Unnati Patel got second prizes in poster presentation.
 - e. Ms. Khushbu Ganatra from T.Y.B.Sc. Genetics got second prize in poster presentation.
 - f. Mr. Kuldeep Kapadiya T.Y.B.Sc. Microbiology got second prizes in poster presentation.
6. Ms. Chandani Desai, student of S.Y.B.T., stood Second on the basis of Individual Performance in the Inter Collegiate Debate Competition on the topic "Increasing Use of Self Finance Education System Improves Quality of Higher Education" on 17th of December, 2009 held by C. P. Patel and F. H. Shah Commerce College, Anand.Ms. Snehal G. Patel
7. Ankita Shinde (T.Y.B.T.) secured 2nd Position in Indian Classical Dance at Swarnim Gujarat Mahotsav, Dabhoi.
8. The state level competition of Swarnim Gujarat was organized by CVM from 28th to 30th January, 2010, in which our college became **State level Champion in Quiz & Classical dance**
9. Ms. Jenny Johnson bagged first prize at 21st State level seminar competition organized by Micobiology study circle & GSBTM state level competition at CG Bhakt Institute of Biotechnology Bardoli. Dt.22/11/2009.

10. ACADEMICSACHEIVEMENTS

Gold medal for T.Y.B.Sc. / T.Y. B.C.A. 2008-09

Sr. No.	Name of the Student	Subject
1	Priyanka Brajeshsingh Kushwah	Biotechnology
2	Krunal Dilipkumar Shah	Chemistry
3	Suman Rathore	Computer Science
4	Apurva Satishkumar Rana	Environmental Science
5	Shivani Mukesh Upadhyay	Genetics
6	Rahul Shah	Industrial chemistry
7	Sagar Patel	Information Science
8	Jigarkumar Maganlal Patel	Instrumentation
9	Parth Jayesh Desai	Mathematicss
10	Trupti Prawin Agarwal	Microbiology
11	Parul Pawan Agrawal	Bioinformatics
12	Pratikkumar Thakorbbhai Solanki	BCA

11. N. V. Patel Charity Trust gold medal for Academic Excellence F.Y.B.Sc.and B.C.A 2008-09

Sr. No.	Name of the Student	Subject
1	Niravkumar Harshukhbhai Sapariya	Maths Group
2	Unnatiben Rajeshbhai Patel	Bio Group
3	Sheetal Bipinkumar Shah	B.C.A.
4	Bhavisha Desai	TY BT

12. N. V. Patel Charity Trust Prize for S.Y.B.Sc. / S.Y.B.C.A. Toppers 2008-09

Sr. No.	Name of the Student	Subject
1	Richa Rajesh Gupta	Biotechnology
2	Manoj Karamshibhai Italiya	Chemistry
3	Gunjan Arvindbhai Ojha	Computer Science
4	Suchika Sukumar Gupta	Environmental Science
5	Yashvi Bhadresh Shah	Genetics
6	Bhupesh Popatlal Panchal	Industrial Chemistry
7	Balvendarsingh K. Chauhan	Instrumentation
8	Anuj Atulkumar Desai	Information Science
9	Ronak Jayvadanbhai Patel	Mathematics
10	Pratik Vinodbhai Thakker	Microbiology
11	Sejal Jivrajbhai Sachapara	Bioinformatics
12	Disha Sanjaykumar Joshi	B.C.A.

❖ **Activities of the guidance and Counseling unit:**

N.V.Patel College has established Counseling cell which provides group and individual counseling for personal concerns which are common amongst undergraduate students. Counseling is a process of self discovery over a period of time and growth. Counselling cell has inducted eight members to smoothly execute the entire process under the guidance of Head of the Institution and Co-ordinator. The activities of the cell are:

1. Framing of Batches (25-30 students (S.Y and T.Y) per counselor, 25 students per counselor at First year level).
2. Appointment of counselors
3. Guidance for proper documentation is provided.
4. Monitoring of students regarding performance, regularity, behavior and overall growth.
5. Preparation of specific case studies and intimation to Parents in consultation with Head of the Institution.
6. Inviting and convincing Parents especially of slow learners to attend Parent-Faculty interaction meeting known as OPEN HOUSE.
7. Compulsory enrolment of weak students by counselors in remedial classes and crash course.
8. Regular home assignment to slow learners and conduction of special sessions for them before and after college hours.
9. Minimizing Detention list of college through counselors.
10. Appreciation award to Counselors for their untiring efforts.
11. Appreciation letter to Parents for the performance of their ward
12. Framing of Batches (30-35 students (S.Y and T.Y) per counselor, 25 students per counselor at First year level).
13. Appointment of counselors
14. Guidance for proper documentation is provided.
15. Monitoring of students regarding performance, regularity, behavior and overall growth.
16. Preparation of specific case studies and intimation to Parents in consultation with Head of the Institution.
17. Inviting and convincing Parents especially of slow learners to attend Parent-Faculty interaction meeting known as OPEN HOUSE.
18. Compulsory enrolment of weak students by counselors in remedial classes and crash course.
19. Regular home assignment to slow learners and conduction of special sessionals for them before and after college hours.
20. Minimizing Detention list of college through counselors.
21. Appreciation award to Counselors for their untiring efforts.
22. Appreciation letter to Parents for the performance of their ward.

❖ Placement services provided to students:

- A) The list of T.Y.B.Sc. students along with their details have been given to 3G Global Services Pvt Ltd. Students will be interviewed after the declaration of the results of university exams.
- B) The Wipro BPO Company has conducted a campus interview at NV Patel college of Pure and Applied Sciences on 10th March 2010.
39 students of TY BSc various subjects had participated in the interview, 6 were short listed and 2 got the offer from Wipro Ltd.
Interviewer: Mr. Niraj Desai,
Campus Relationship Manager,
Wipro ltd, Mumbai.

❖ Healthy practices of the institution

The institute has a number of regular practices which are being carried on a regular basis Some such practices are:

- 1. Practice Test Performance-** College conducts 20-22 weekly tests spread over two academic terms on every Saturday for an hour to test learning abilities and disabilities of students and performance enhancement of students.
- 3. Internal Examination** College conducts two internal examinations in an academic year and the analysis of students' performance.
- 4. Improvement examination-** NVPAS conducts exclusive improvement examination for ex-students failing in a specific subject in internal examination.
- 5. Tutorials:** A total of 16 tutorial classes with 2 hours duration are run for Biology /Maths/BCA group students. Tutorials are mainly focused on problem solving and doubt clearing exercise as the contents are repetition of classroom lecture.
- 6. Remedial classes** Weak students are compelled to enroll for Remedial classes which are conducted by the faculty before and after college hours Tutorials
- 7. Crash course** is brushing up of entire learning exercise for students and a separate time table is prepared and displayed by the college. This year such courses were held for FY .SY (GT, BT, BNF) AND TY B.Sc (GT, BT, BNF) students
- 8. Presentations by student:** Students at third year level are encouraged to select seminar topic and make presentations in front of the class either during the lecture or during practicals for improving their confidence level and also overcome the linguistic barrier.
- 9. Improvement of language skills:** An Analogue English lab has been built with the capacity of around 60 students where listening, pronunciation and related exercises are carried out with the help of audio visual aids to enhance English speaking skills of the students.
- 10. Personality Development classes (PDP) :-** The personality Development Programme for overall personality development classes was held successfully in our college under the leadership and guidance of Prin. R.C. Desai Sir Director CDC, in which orientation programme was held and Resource persons from Globearena also conducted classes. This year mock interview session were conducted with very good response from students
- 11. EEPC-** College has established Entrance Examination Preparation Cell for students to provide training and guidance for admission to higher education programmes after graduation.
- Organized a 4- day Workshop cum lecture series designated "PRAYAAS-I" from 4th May to 7th May 2009 for T.Y.B.Sc students for preparing them for Admission in premier institutes

of India. Professors from SPU and AAU and Resource persons from GSBTM and Xplorigen Technologies Pvt. limited, Hyderabad took technical sessions in their respective subjects.

- Organized another 3-Day Workshop cum lecture series designated “PRAYAAS-II” from 30th Oct to 1st November 2009 i.e during Diwali vacations.

Students highly appreciated the efforts by the college in summer and Diwali vacations and five students got selected in JNU-CEEB exam.

12. NCC

- Orientation Programme was organized for girls students of F.Y. & S.Y. at the college.
- 16 Girl cadets and ANO Lt. Babita Saiyed had attended the combined Annual Training Camp at Thamna. Cadets participated in various competitions such as firing, group song, group dance etc. and N.V. Cadets beg 1st position in group dance.
- 2 Cadets were short listed for Quarter Guard UO Bhakti Goswami & Cdt. Khushali Patel
- Sgt. Bijal Gajjar S.Y.B.Sc. ES is selected for Republic Day Camp for the activities in Drill, NIA Presentation & Flag Area.

13. College Newsletter

We publish once in six months a newsletter which mentions all the academic and other activities of our college by the students & faculty

14. Madhyastha Samiti.

Every year the College Madhyastha Samiti organizes various co curricular and extracurricular activities throughout the year and prepares our students to participate in different events held at college level, state level, university level and national level.

- This year, as per Gujarat Government guidelines, we categorized our Madhyastha Samiti in eight different faculties namely, Faculty of Music, Dance & Theatre, Faculty of Arts, Faculty of Sports, Faculty of Creative Expression, Faculty of Knowledge, Faculty of Social Services, Excursion, and Nature Club

15. Training & Placement Cell

- Helps to provide training during vacation to the students of the college.
- Provide placement on the need basis via Alumni association. During the vacation students of various branches had undergone in-plant training to the various reputed organizations.

16. Staff Club Activity:

- In order to provide a common platform to express the skill & interest and to encourage for a participatory approach the staff club of the college successfully organized various activities. The participation from the staff members was overwhelming.
- **A get together of all the staff members was conducted on the last day of first term where a grand lunch was enjoyed by all.**

17. Library

- Our S. S. Patel NVPAS Library has 15,651 books and 56 science journals/magazine up to UG level of all the subjects being taught in the college.
- The students are allotted library period to visit the library and utilize the facility.

The library is kept open from 8.00 a.m. to 09.00 p.m. during the exam days and all the teachers are allotted duty to sit in the library after the college hours to solve the difficulties of the students.

❖ **Linkages developed with National / International, academic /Research bodies:**

Dept. of Microbiology has linkages with Prof. R.C. Kuhad, Lignocellulose biotech lab, Dept. of Microbiology, Unit of Delhi, South Campus since last one year. Research student Ms. Shilpi Thakur is working in collaboration and one Research Publication has been communicated to journal of Biodegradation.

Part C: Details of the institution for the next year.

The institution has targeted following objectives for next academic year.

1. Orientation Program :

The institution has planned the Orientation Program for F.Y.B.Sc. students who would newly join the institution. This will give a complete picture of working of the Institution to the students. The rules and regulations of college, academic schedule, the weekly practice tests, co curricular and extra curricular activities in college, compulsory attendance, regularity, counseling system, use of library and internet facility, personality development classes etc. will be covered during the orientation program by Principal.

The parents along with students are invited to participate in this program. The planned schedule is conveyed to students and parents by post well in advance.

2. To start Career Oriented Certificate Course :

The institution has got sanction of one C.O.S. program in Industrial Biotechnology for which the amount of Rs.10 lakh is sanctioned by UGC. The course will commence from academic year June 2010-2011. The institution will make strategic planning for timely completion of following.

(a) Framing of Syllabi (b) Approval of course curriculum and fee structure by University (c) Dissipation of information to various grant in aid institutions and enrollment of students (d) Smooth functioning of course.

3. Enhancement of Library facilities:

In order to maximize the use of library, from next academic session, it will be kept open for students from morning 7.00 am to evening 6.30 pm. During examination, the library is kept open till 9.30 pm in evening. The concerned faculty members are also available in library for student help during exam time.

4. Special coaching program for ATKT students:

This year our Sardar Patel University has conditionally promoted the students of F.Y.B.Sc. to Second year, provided they have to clear those exams simultaneously along with second year examinations. For such students, the college has decided to run a special coaching batch where teaching of F.Y B.Sc. will be provided to S.Y. B.Sc. students. This exercise will prove a great support to students with ATKT to clear the subjects at ease.

Dr. Rita N. Kumar
(Coordinator of IQAC)

Dr. Basudeb Bakshi
(Chairperson of IQAC)