

Submitted
21/9/11

The Annual Quality Assurance Report (AQAR) of IQAC (2010-2011) (2ND 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.edu.in



RML

**Charutar Vidya Mandal's
Natubhai V. Patel College of Pure And Applied Sciences**

(ISO 9001 : 2008 CERTIFIED INSTITUTE)
VALLABH VIDYANAGAR - 388 120.



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Dr. Basudeb Bakshi
M.Sc., Ph.D.

Principal

NVP/A-1/AQAR/103/11

Date: 21-09-2011

To,

The Director,

National Assessment and Accreditation Council

2/4, Dr. Rajkumar Road, P.O. Box No. 1075

Rajajinagar, Bangalore – 560 010

Subject: Submission of Annual Quality Assurance Report (AQAR) of IQAC (2nd
Annual Report 2010-11)

Dear Sir,

Please find herewith enclosed the AQAR of our institution for the academic year 2010-11.

Kindly do the needful and oblige.

Thanking you.

Yours Sincerely,

Basudeb Bakshi

(Principal)

Encl: Two copies of AQAR Report

**Accredited "A" Grade by NAAC
Recognized under 2(f) and 12(B) Act of UGC**

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

Section A:

Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement

The Natubhai V Patel College of Pure and Applied Sciences has always set the Goals and Objectives in the beginning of the academic year towards quality enhancement in terms of teaching, learning and administration. The strategic planning and systematic execution of it has helped the institution to achieve new heights. This academic year also the action plan was chalked out and all the efforts were made throughout the year to achieve cent percent success to reach the goals.

Our planning and execution aimed to improvise and strengthen the academic performance of college.

The following goals and objectives were set-

Goals and Objectives for academic year 2010-2011

- 1) Faculty Development Programs:
- 2) Updating of present system by introducing Semester system and CBCS system
- 3) Updating of IT based program
- 4) Student Development Programs

Section B: Details in respect of the following

1. 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:

- For academic progress and upliftment of faculty, the Institution encourages various Departments to conduct National and State level seminars / Symposia / workshops.
- Our Institution also promoted the participation of faculty members for different academic activities. The faculty members were sent for presentation of their research work at different Universities or Conferences.
- There were about 36 research papers published by faculty members in journals of National and International repute.

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

- The Choice Based Credit System was implemented from the current academic year for First Year B.Sc. and First Year B.C.A as per University implementation.
- A switch over from Yearly system to Semester system for First year degree Program was put into practice from this year.
- The college carried out the dual task of running both yearly (for Second Year and Third Year) As well as semester system (for First Year) simultaneously in current academic year.
- Moreover, the CBCS system was also implemented which provided an option for the choice of Elective subject at First Year along with the selection of Maths or Biology Group.
- There was also an introduction of ICT based learning course for First year students.
- The vigorous exercise to reframe all subject syllabi of First year B.Sc. and B.C.A. in context with semester system was given final shape and the framed syllabi were passed through different governing bodies by University .
- The college faculty members worked as Board of Studies members holding special responsibilities to carefully work out the details of course curricula.

III. Updating of IT based program:

- The dept. of Chemistry was renovated by providing glass cabin and furniture of worth Rs. 88,600/-.
- The Dept. of Biological Science was provided with wall mounted cupboards and racks for display of Scientific journals and magazines.
- The Dept. of Microbiology was provided with new laboratory setup for carrier oriented course in Industrial Biotechnology.
- The library was provided with two cupboards for EEPC books worth of Rs. 13,800/-
- The Dept. of Computer Science was equipped with Canon laser printer (model 2900 B) and Canon scanner Lid 100
- In order to have Centralized prayer singing through audio system, a DVD player (LG) was purchased.

IV. Student Development Programs:

Student oriented activities are being carried out throughout the year for their overall personality development.

- i. The institute has hired the services of some special Consultancy group like Globe Arena for special coaching of students. Personality Development Classes are conducted for all students throughout the year.
- ii. The Practice tests are a compulsory part of our exam system in order to strengthen students' writing ability, preparation and time management during the exam. These tests are conducted every Saturday.
- iii. The Central committee of our college is formed every year. Students form a major part of various sub committees. They are selected based on their merit

and interview. Under this umbrella, various Co-curricular and extra-curricular programs are being conducted.

- iv. For students, seminar/ quiz /paper presentation/ special lectures by guest faculties are arranged.
- v. The college has EEPC (Entrance Exam Preparation Cell) which imparts special coaching to the students to prepare for various competitive exams after graduation
- vi. The college also runs regularly the special coaching classes named as Remedial classes for late entries and for slow learners of first year. Also need based Remedial classes for Second year students of various streams are also conducted.
- vii. The college campus has been made Wi-Fi campus to ensure more use of Computer aided learning for students
- viii. The students are taken to Field visits/ industrial visits/ study tour.
- ix. The institute provides financial aid to needy student in form of Scholarships.

2. New academic programmes initiated (UG and PG):

Our Institution got the sanction of one new Career Oriented Certificate Course in Industrial Biotechnology funded by UGC during this academic year. The students studying in first or second or third year are eligible to join the certificated course along with their regular studies.

3. Innovations in curricular design and transaction:

- a) The institution has made pragmatic shift from annual system to Semester system and Choice Based Credit System (CBCS) from the present academic session June 2010-11. Still the transaction from Yearly to Semester system will continue for next two years, the institute presently will run both yearly (For Second and third year degree program) as well as semester system (for First year degree program).
- b) The First Year B.C.A. and B.Sc. degree program has been transformed into semester system with two semesters per one academic year.
- c) The CBCS system has come into effect from current academic year which provides the selection of Elective courses to First year students. The choice based credit system will help the students to select the subject of their choice in Elective papers.
- d) The horizontal mobility between different groups is facilitated by selection of elective courses in F.Y.B.Sc., which further enable the students to move from one group to another group while selection of special papers at S.Y.B.Sc.
- e) The framing of new curriculum for Second year degree program in various subjects was carried out by our faculty members representatives in BOS this year. The prepared syllabi by appointed BOS committees were passed through Academic Council and Senate and Syndicate bodies of Sardar Patel University.

4. Inter-disciplinary programmes started: Nil

5. Examination reforms implemented:

- Ours is the unique college with remarkable machinery for continuous evaluation of the students round the year.
- Conduction of **First and Second Internal exams** at the end of the term as per the university examination pattern.
- Conduction of **Weekly Practice tests** regularly on basis.
- **Special test** - Keeping in mind the difficulties of late admitted students, the institution has conducted an additional first internal examination for such students in December.
- **Crash Course**- 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.
- 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.

6. Candidates qualified: NET/SLET/GATE etc.

Students Cleared NET/GATE 2010-11

- 1.Preeti Vyas – NET
- 2.Pushpika – NET
- 3.Paresh Srimali-NET
- 4.Kirit Parwani-NET
- 5.Sanket Chārola-NET
- 6.Laxmi Chandra Khatri-GATE

7. Initiative towards faculty development programme:

(A) Participation of Faculty Members In Seminars / Workshops / Conferences In Year 2009-10.

- Dr. Rita N. Kumar attended and presented a paper at one day state level seminar on Innovative Approaches to Biological Sciences: recent perspective on 3rd Jan. 2011, at Nadiad, Gujarat
- Dr. Rita N. Kumar and Ms. Sudeshna Chakraborty participated and presented paper in “National Conference on Biodiversity of Medicinal and Aromatic Plants: Collection, Characterization and Utilization” on 24-25th November, organizing by Medicinal Plant Association of India, Anand, Gujarat.
- Dr. Susmita Sahoo presented a poster in National Symposium of Medicinal Plants and another poster at MSU in a National Symposium on Biodiversity. Attended a national Symposium on Medicinal and Aromatic Plants organized by Directorate of Medicinal and Aromatic Plants, Boriavi.

- Dr. Usha Verma attended a one day state level seminar on Innovative Approaches to Biological Sciences: recent perspective on 3rd Jan. 2011 at Nadiad, Gujarat.
- Ms. Sudeshna Chakraborty attended and presented a paper at one day state level seminar on Innovative Approaches to Biological Sciences: recent perspective on 3rd Jan. 2011, at Nadiad, Gujarat and won a first prize for paper presentation.
- Dr. Rita N. Kumar attended and presented a paper at two days International Conference on Environmental Challenges: A Global concern on 15-16th 2010 held at Jalandhar, Punjab.
- Dr. Nitin Kumar Sharma attended an International Conference of "Delhi International Renewable Energy Conference 2010", organized by Ministry of New and Renewable Energy, Govt. of India. On 26-29 Nov 2010.
- Dr. Susmita Sahoo attended a National Symposium of Medicinal Plants and presented a poster entitled "Use of food drug plants in the treatment of diabetes" at Surat, Gujarat -2010.
- Dr. Sukalyan Chakraborty and Dr. Isha Desai attended 12th Annual conference on Interdisciplinary approaches in Environmental Sciences on 9-10th October, 2010 held at Maharaja Sayajirao University of Baroda, Gujarat.
- Dr. Leena Abraham attended a National Symposium on Climate Change by Indian Society of Geomatics.
- Mr. B.P.Patel attended XXIV Gujarat Science congress-2010 organized jointly by Gujarat university and Gujarat Science academy, Ahemdabad on 21/03/2010 and also attended 47th Gujarat Ganit Mandal annual conference-2010 organized by Gujarat Ganit Mandal and Bhagini samaz ,Udawada (Valsad) from 18/11/2010 to 20/11/2010.
- Mr. Kishor Pokar attended XXIV Gujarat Science congress-2010 organized jointly by Gujarat university and Gujarat Science academy, Ahemdabad on 21/03/2010 and also 47th Gujarat Ganit Mandal annual conference-2010 organized by Gujarat Ganit Mandal and Bhagini samaz ,Udawada (Valsad) from 18/11/2010 to 20/11/2010.
- Mr.Niraj babaria attended Advanced Training in Mathematics for Lecturers (in Real Analysis) organized by NBHM & Department of Mathematics, Delhi University 22nd March to 3rd April-2010.
- Mrs. Arti M. Khabia presented a paper on "Detection Of Inliers In Weibull Model" in the International Conference On Development And Applications Of Statistics In Emerging Areas Of Science & Technology organized by Department of Statistics, University of Jammu during 8 – 10, December,2010.
- Dr. Himanshu Trivedi participated in the Seminar on Satellite Meteorology SATMAT – 2010, organized by Indian Meteorology Deptt., Govt of India and SAC, ISRO, Ahmedabad at Science City on 29th October, 2010.
- Dr. Himanshu Trivedi presented a research paper entitled "Analyzing time-series data of MODIS land surface temperature over major land covers of semi-arid region in west India" at Geomatics-2010 National Conference on Climate Change : Coastal Ecosystems with Special Session on Planetary Geomatics at Space Applications Centre, ISRO, Ahmedabad held during Feb 04 - 06, 2010.
- Dr. B. D. Patel Presented (poster) a paper entitled "Molecular Structure of a Novel Pyrrolo-pyrimidine Derivative: X-Ray Crystallographic Investigations" at

- XXXIXth* National Seminar on Crystallography held at Department of Physics and Electronics, University of Jammu, Jammu during 25-27 October, 2010.
- Dr. Babita Saiyed presented a research paper entitled "Effect of rare impurities on spectroscopic properties" at GSA, VVN, CSC, Annual Science meet – 10, held at Dept of Physics SPU on 14.02.10.
 - Dr. Yogesh Patel and Dr. Mehul Dave participated in Seminar on Satellite Meteorology SATMAT – 2010, organized by Indian Meteorology Deptt., Govt of India and SAC, ISRO, Ahmedabad at Science City on 29th October, 2010.
 - Dr. Yogesh Patel Attended Training Programme of NSS at Abu during 24 -25 July 2010.
 - Dr. B. D. Patel participated in Vth GSA-CSC annual Science Meet 'Sci-Meet: 2010 organized by GSA, V. V. Nagar on February 14th, 2010.
 - Dr. B. D. Patel participated in the national seminar on "Nanotechnology-Today and Tomorrow at Department of Chemical Engineering, Institute of Technology, Nirma University, Ahmedabad held on March 8th, 2010.
 - Dr. B. D. Patel participated in the national seminar on "Potential of Nanotechnology in Drug Delivery, held at A R College of Pharmacy and G H Patel Institute of Pharmacy, Vallabh Vidyanagar during 13th and 14th March, 2010.
 - Dr. B. D. Patel participated in xxiv Gujarat Science Congress 2010, at Gujarat University, Ahmedabad and Gujarat Science Academy, Ahmedabad on 21.03.2010.
 - Dr. Yogesh Patel attended Swarnim Gujarat Coordinators Training Program on 18.08.2010 at Gandhinagar.
 - Dr. H. J. Trivedi delivered two lectures on "Mechanics and Dynamics" in May 2010 as a Resource Person at EEP Cell Crash Course organized jointly by GSBTM, Govt. of Gujarat and NVPAS.
 - Dr. H. J. Trivedi delivered an invited Expert Lecture live on television, on the topic "Fabry-Perot Etalon" on 6th Sept. 2010 at BISAG, Gandhinagar.
 - Mr. Jai Prakash Karunakaran has attended UGC sponsored Orientation Program,
 - Mr. Jai Prakash Karunakaran and Mr. Hasamukh Patel attended Faculty Development Program on Advanced Java conducted by SVICS, Kadi, GTU and Computer Society of India.
 - Ms Monika Patel and Mr Mayur Patel attended the Seminar at "24th Gujarat Science Congress" at Gujarat University – Ahmedabad on 21st March 2010.
 - Mr Tejas Thakkar presented a paper in International conference on ICISD 2011 Organized by Department of Information Technology, G H Patel college of Engineering & Technology during 24-25 Jan 2011.
 - Mr. Mayur Patel and Ms Mittal Bhatt presented a paper in International conference on SSAA 2011 Organized by Department of Information Technology, G H Patel college of Engineering & Technology during 24-25 Jan 2011.
 - Mr Mayur Patel, Mr Hasamukh Patel and Mr. Chetan Dudhagara presented paper in national conference on "contemporary issues in commerce & management on 20th feb, 2010 in G.K & C.K. Bosamia Arts & commerce college, Jetpur.
 - Mr. Hasamukh Patel presented paper in National seminar on management in BJVM college.
 - Mr. Chetan Dudhagara presented paper on "Evolving Neural Network Models, Hidden Markov Models and Gibbs Sampling for Protein Secondary Structure

Prediction" is Published in " An International Journal of Advanced Research in Computer Engineering".

- Mr. Chetan Dudhagara Presented a paper on "Molecular Docking : A Drug Activity in Cheminformatics" in National Seminar at Anand Institute of Information Science – Anand.
- Mr. Chetan Dudhagara attended A UGC Sponsor National level Short Term Training Program on "Core JAVA" at Department of Computer Science, Saurashtra University – Rajkot.
- Ms Monika Patel and Mr Mayur Patel attended the Seminar at "24th Gujarat Science Congress" at Gujarat University – Ahmedabad on 21st March 2010.
- Mr. Mayur Patel and Ms. Mittal Bhatt presented a paper in International conference on SSAA 2011 Organized by Department of Information Technology, G H Patel college of Engineering & Technology during 24-25 Jan 2011.
- Mr Mayur Patel, Mr Hasamukh Patel and Mr. Chetan Dudhagara presented paper in national conference on "contemporary issues in commerce & management on 20th feb,2010 in G.K & C.K. Bosamia Arts & commerce college, Jetpur.
- Dr. Madhumati Bora, Ms. Yachana Jha, Dr. Rehana Niyaria and Mr. Amit Ballani participated in a National Symposium on Trends in Biological Sciences organized by BRD School of Biosciences on 28th & 29th January, 2011.
- Mr. Dharmesh Patel attended Workshop on "Effect of Swarnim Gujarat Khel Mahakumbh on games & Sports Activities of Gujarat" on 5th February 2011 Organized by S.S.Patel College of Physical Education, V.V.Nagar, Gujarat.
- Dr Madhumati Bora, presented a poster on Recent Developments In Protein Structure Prediction Using Neural Networks in 1st IFIP International Conference on Bioinformatics (March 25-28, 2010)
- Dr. Madhumati Bora, Ms. Yachana Jha, Dr. Rehana Niyaria and Mr. Amit Ballani participated in a National Symposium on Trends in Biological Sciences organized by BRD School of Biosciences on 28th & 29th January, 2011.

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

Sr. No	Faculty Name	Department	Course	Year of Passing
1.	Dr. Bhavin Patel	Chemistry	Ph.D.	2010-11
2	Dr. Mayank Patel	Chemistry	Ph.D.	2010-11
3	Dr. Sudeshna Chakraborty	Bio. & Env. Science	Ph.D.	2010-11
4	Dr. Nitin Kumar Sharma	Bio. & Env. Science	Ph.D.	2010-11
5	Ms. Monica Patel	Comp. Science	M.Phil	2010-11
6	Mrs. Shreya Bhavsar	Comp. Science	M.Phil	2010-11

(C) Faculty recognized as Ph.D. Guide:

- Dr. Hemang Desai (English Dept.), Dr. Madhumati Bora (Biotechnology Dept.) and Dr. Nirmal Patel (Chemistry Dept.) are recognized as Ph.D. guide by S.P. University. this year.

8. Total number of seminars/workshops conducted:

- 1) Dept. of Bio. And Env. Sci. organized a National symposium on "Sustainable Development: issues and Concerns" on 22nd Jan. 2010 at GCET Auditorium. where about 300 faculty members and students participated. Selected 20 candidates gave oral presentation and 44 represented poster presentation. The proceedings of the symposium has been published online in the International Journal of Pharma & Biosciences (ISSN 0975-6299) & can be viewed online by visiting www.ijpbs.net.
- 2) The department of chemical sciences organized a written seminar entitled "Vistas in Chemistry" in August 2010.
- 3) The department of chemical sciences organized a paper presentation competition in September 2010.
- 4) Computer Science Dept. has organized a one day state level IT competitions "Techno Astrum 2009-10", on 19th January 2010. Dr. S.G Patel, Joint Secretary-CVM was the President of the event, Dr. S. N. Pradhan, Professor, Nirma Institute of Technology, Ahmedabad was the Chief Guest of the event.
- 5) The Gujarat State Biotechnology Mission, Gandhinagar and N.V Patel College of Pure & Applied Sciences, V.V.Nagar jointly organized a 6-Day Crash Course Program (Sponsored by GSBTM) from 5th May to 10th May 2010, to prepare students for the National Level Competitive exams particularly JNU-CEEB. (Combined Entrance Examination for Biotechnology). GSBTM, DST, Govt. of Gujarat, Gandhinagar, has selected our N.V Patel College of Pure & Applied Sciences, as GSBTM-Capacity Building Cell of Anand-Vadodara region. GSBTM sanctioned 1,87,000 Rupces for this program . Second crash workshop was organized with GSBTM from 13th November, 2010 to 18th November, 2010. For this programme Rs.1,95,000/- was approved.
- 6) Department of BT GT BNF organized an invited lecture series for the aspirants of MSc on 9th and 16th January, 2011 under the umbrella of Network of Biotechnology Capacity Building Cell of (N-BT-CBC) GSBTM and Entrance Exam preparation Cell.
- 7) Dept. of Microbiology organized a one day national symposium in Microbial Biotechnology - colloquium -2011 on Jan 5, 2011.
- 8) The department of Physics organized a one day seminar on "Energy Conservation – Need of the Hour" to celebrate the National Energy Conservation Day on 14th December, 2010 in joint collaboration with the GUJCOST sponsored C. C. Patel Community Science Centre of Sardar Patel University.
- 9) Department of English organized "Gearing for on the Go", an orientation programme based on communication and life-skills for the students of S.Y and T.Y B.Sc. of NVPAS from 2nd to 5th February, 2010.

9. Research projects:

(A) Ongoing projects:

- 1) Dr. Rita N Kumar, received a major research project worth of Rs.7,03,800/- entitled "*Pollution status of Sabarmati river with reference to river front development project and Kharikat canal*" sponsored by UGC for three years (2009-2012) and Ms. Rajal H. Solanki has been registered for her Ph. D. programme in the subject of Env. Science with Dr. Rita N. Kumar.
- 2) Dr. Sukalyan Chakraborty has also received a 2nd minor research project in collaboration with Dr. Tanushree Bhattacharya of ISTAR on "Heavy metal contamination of road dust in Anand, Gujarat" sponsored by UGC for two years (2010 to 2012)
- 3) Dr. Himanshu Trivedi received an additional grant of Rs. 2,00,000/- for his ongoing collaborative Major Research project entitled "Sensor System Studies for Vegetation Monitoring" with Indian Space Research Organisation(ISRO), Ahmedabad making the total amount sanctioned for the project to Rs. 8,60,000/-.
- 4) Dr. Babita Tyagi received a Minor Research Project entitled "The study of the role of the dopant on physical properties of single crystals of oxalate grown by gel technique" for the duration of two years and the total outlay of Rs. 85000/- from University Grants Commission (UGC).
- 5) Mr. H. N. Parikh Received a Minor Research Project Funded By UGC, titled "Development Of Electronic Devices Based On Organic Semiconductors" of amount Rs. 1,16,000/-.
- 6) Dr. Smita Srivastava received a Minor Research Project for two years and the total outlay of Rs. 65000/- from University Grants Commission (UGC).
- 7) Dr. Ketul Patel received a Minor Research Project for two years and the total outlay of Rs. 80000/- from University Grants Commission (UGC).
- 8) Dr. V.D. Bhatt received a Major Research Project for three years and the total outlay of Rs. 5,78,000/- from University Grants Commission (UGC).
- 9) Dr. Archana Shah received a Minor Research Project for two years and the total outlay of Rs. 50000/- from University Grants Commission (UGC).
- 10) Dr. S. H. Panjabi has received a Minor Research Project for two years and the total outlay of Rs. 2,00,000/- from University Grants Commission (UGC).
- 11) Dr. Rita Agarwal received a Minor Research Project for two years and the total outlay of Rs. 2,00,000/- from University Grants Commission (UGC).
- 12) Dr. Nirmal Patel has received a Minor Research Project for two years and the total outlay of Rs. 2,00,000/- from University Grants Commission (UGC).

(B) Completed project:

- 1) Dr. Susmita Sahoo, completed a Minor research Project worth Rs.85,000/ entitled "*Study of plants in the treatment of Diabetes*" sponsored by UGC for two years (2009 to 2011)

- 2) Dr. Sukalyan Chakraborty completed a minor research project on "Marine benthic algae as Metal Biomarker in selected areas of Gulf of Kutch" sponsored by UGC for two years (2009 to 2011).
- 3) Dr. Hemang desai completed a research project from UGC entitled "Translation of selected contemporary Gujarati poems into English and critical Introduction to emerging trends in Gujarati poetry" in April 2010.

(C) Newly implemented:

Three research projects are sanctioned by GUJCOST and UGC for the year 2011-12 to the Dept. of Bio. & Env. Science., Dept. of Microbiology and Dept. of English

Sr. No.	Title of the project	Name of the Project Leader	Funding Agency
1.	Hydrological studies of River Ecosystem	Dr. Rita N. Kumar	GUCOST
2.	Air Pollution Studies in and around Anand city	Dr. Sukalyan Chakraborty	GUJCOST
3.	Production of Exopolysaccharide from Basidiomycetes and their possible antioxidant properties.	Dr. Akshay Gupte	UGC
4.	Generation of exhaustive E-content on theory and practice of literary translation.	Dr. Hemang Desai	UGC

10. Patents generated, if any:

Nil

11. New collaborative research programmes:

A collaborative research programme was initiated this year. Our department of Microbiology has collaborated with Microbiology Department of Delhi University. One research student works in this joint venture program.

12. Research grants received from various agencies: (Year 2010-11)

Sr. No.	Department	Principal Investigator	Major/ Minor	Amount Received during 2010-11 (Rs.)
1.	Microbiology	Anjum Banu	Minor	17,450
2.	Microbiology	Dr. Akshay Gupte		4,07,300
3.	Microbiology	Dr. Akshay Gupte		4,21,000
4.	Carrier orientd Course			11,56,000
5.	Delignification Project	Dr. Akshay Gupte		5,78,000
6.	Bio. & Env. Sci.	Dr. Leena Abraham	Minor	20,000
7.	Bio. & Env. Sci.	Dr. Nitin Sharma	Minor	15,000
8.	Bio. & Env. Sci.	Dr. Susmita Sahoo	Minor	15,000
9.	Bio. & Env. Sci.	Dr. Sudeshna Chakraborty	Minor	18,002
10.	Bio. & Env. Sci.	Dr. Susmita Sahoo	Minor	22,000
11.	Bio. & Env. Sci.	Dr. Nirmal Kumar J.I.	Major	2,34,800
12.	Bio. & Env. Sci.	Manishita Das	Minor	12,029
13.	Chemistry	Nirmal Patel	Minor	30,000
14.	Chemistry	Sanjay Punjabi	Minor	44,000
15.	Physics	H.J. Trivedi	Major	5,02,000
16.	Microbiology	Snehal Ingale	Minor	20,082
17.	Chemistry	Dr. V.D. Bhatt	Minor	3,430
18.	Microbiology	Yachna Jha	Minor	29,336
Grand Total				35,45,429

13. Details of research scholars:

List of the Research Students registered for Ph.D in the Department:-

Sr.No	Department	Name of Guide	Name of the Student	Title of the Ph.D Work	Date of Registration
1.	Bio. & Env. Science	Dr. Rita N. Kumar	Mr. Narendra Patil	Evaluation of Plant Biodiversity, Ethnobotany and Anthropogenic interventions of Saputara and Purna Foresters of Gujarat (synopsis submitted)	2 nd May 2005
2.	Bio. & Env. Science	Dr. Rita N. Kumar	Mr. Rohit Kumar M Bhoi	Nutrient Dynamics in Relation to Plant Community studies in	24 th August, 2007

				Dry Tropical Forests of Rajasthan	
3.	Bio. & Env. Science	Dr. Rita N. Kumar	Mr. Kanti Patel	Structural and Functional Study of Dry Tropical forests of Udaipur and Bhilwara of Rajasthan, India with reference to Nutrient Dynamics and Plant Community	29 th August, 2008
4.	Bio. & Env. Science	Dr. Rita N. Kumar	Mr. Sajish PR	Ecological studies in Relation to Pollution Status and Biodiversity of Mahi Estuarine Ecosystem in Gulf of Khambhat, Gujarat, India	29 th August, 2008
5.	Bio. & Env. Science	Dr. Rita N. Kumar	Mr. Basil George	Studies on the effect of Pollution on Biodiversity of Narmada and Tapi Estuarine regions of Gulf of Khambhat, Gujarat state, India	29 th August, 2008
6.	Bio. & Env. Science	Dr. Rita N. Kumar	Ms. Rajal Solanki	Hydrbiological and pollution studies of River Sabarmati with special reference to new river front development and Kharicut canal at Ahmedabad, Gujarat.	26 th August, 2009
7.	Microbiology	Dr. A. Gupte	Mayur Gahlout	Production of fungal metalloenzymes and their application in bioremediation of azo dyes by fungi	27 th November, 2009
8.	Microbiology	Dr. A. Gupte	Mr. Urvish Chhaya	Isolation and Characterization of ligninocellulolytic enzymes from litter decomposing microorganisms	05 th January, 2007
9.	Microbiology	Dr. A. Gupte	Mr. Yogesh Patel	Microbial decolorization of textile dyes	05 th March, 2007
10	Microbiology	Dr. A. Gupte	Ms. Jagruti Pandya	Production, purification and characterization of xylanase and their	05 th March, 2007

				applications	
11	Microbiology	Dr. A. Gupte	Ms. Shilpi Thakur	Delignification of agrowaste residue and its enzymology involved in delignification	03 rd August, 2009
12	Microbiology	Dr. A. Gupte	Mayur Joshi	Production of microbial exopolysaccharide and its application	25 th November, 2009
13	Chemistry	Dr. Ketul Patel	Mr. Yogendra Thakor	Synthesis, characterization and antimicrobial activity of mixed legand complexes	28 th July, 2006
14	Chemistry	Dr. Ketul Patel	Mr. Sandip Patel	Synthesis, characterization and Biocidal studies of mixed ligand complexes	23 rd August, 2007
15	Chemistry	Dr. Ketul Patel	Mr. Manish Parmar	Synthesis, Characterization and Antimicrobial screening of some heterocyclic compounds	27 th November, 2009
16	Chemistry	Dr. Vasishtha Bhatt	Mr. Kuldip Gohil	Synthesis, Characterization and thermal energy storage applications of some Ionic Liquids	4 th August, 2009
17	Chemistry	Dr. Vasishtha Bhatt	Mr. Samat Rama Ram	Studies on mixed metal complexes	27 th November, 2009

14. Citation index of faculty members and impact factor:

(Details of the research papers published by the faculty members in the year 2010-11)

1. Nirmla Kumar J.I., Kanti Patel, Rita N Kumar and Rohit Kumar Bhoi (2010). An evaluation of fuel wood properties of some Aravally mountain tree and shrub species of Western India. Biomass and Bioenergy doi:10.1016/j.biombioe.2010.08.051 (Published online) (Elsevier, 3.326 IF)
2. Nirmla Kumar J.I., Kanti Patel, Rita N Kumar and Rohit Kumar Bhoi. (2011) Forest structure, diversity and soil properties in a dry tropical forest in Rajasthan, Western India. *Annals of Forest Research*. ISSN: 1844-8135 (printed) / 2065-2445 (online)

3. Nirmal Kumar J.I., P.R. Sajish¹, Rita N Kumar², Kanti Patel.2011. Biomass and Net primary productivity in three aged Butea forest ecosystems in western India, Rajasthan. *Iranica J. Energy and Environment*. 2: 01-07. **ISSN 2079-2115**
4. Nirmal Kumar J. I, Kanti Patel, Rita N Kumar and Rohit Kumar Bhoi (2010). An assessment of carbon stock for various land use system in Aravally Mountains, Western India. *Mitigation and Adaption Strategies for Global Change* DOI: 10.1007/s11027-010-9240-3 ,(2010) 15:811–824 (Springer) (IF:0.9)
5. Nirmal Kumar J.I., Kanti Patel, Rita N Kumar and Rohit Kumar Bhoi (2010). Assessment of seasonal variation in soil microbial biomass C, N and P in different types of land uses of dry deciduous forest ecosystem of Udaipur, Rajasthan, Western India. *Applied Ecology and Environmental Research*. **ISSN 1589 1623 (Print) ISSN 1785 0037 (Online)**
6. Nirmal Kumar J.I, Rita N. Kumar, Sajish P.R and Rohit Kumar Bhoi. (2010). Wood and leaf litter decomposition and nutrient release from a tropical dry deciduous forest of Rajasthan, Western India. *Journal of Forest Science* 26 : 17-23. **ISSN 1212-4834**
7. Nirmal Kumar J.I, Rita N. Kumar, Sajish P.R and Rohit Kumar Bhoi. (2010). Bioprospecting in a tropical dry deciduous forest of Western Rajasthan, India. *Journal of Forest Science* 26: 25-30. **ISSN 1212-4834**
8. Nirmal Kumar, J. I., Kumar Rita N., Kanti Patel and Rohit kumar Bhoi (2010). Consequence of Butea monosperma plantation on the nutrient cycling in a semiarid grazing land, Rajasthan, India. *International Journal of Plant Science* 5:16-23. **ISSN 1058-5893**
9. Nirmal Kumar J. I, Rita N. Kumar, Rohit Kumar Bhoi and Sajish P.R. (2010). Tree species diversity and soil nutrient status in three sites of tropical dry deciduous forest of Western India. *Tropical Ecology* 51: 273-279. **ISSN 0564-3295**
10. Rita N. Kumar, Rajal Solanki and Nirmal Kumar J. I. (2011): An assessment of seasonal variation and water quality index of Sabarmati river and Kharicut canal at Ahmedabad. *Electronic Journal of Environmental, Agricultural and Food Chemistry*. Vol 10 (5) 2248-2261. **ISSN: 1579-4377**
11. Nirmal Kumar, J.I, Manishita Das, Rita N Kumar, and Rana Mukherji.2011. Assessment of hydrochemical characteristics of Tropical wetland systems using principal component analysis : A case study. *IUP J of Environmental Sciences*. Vol.5
12. Nirmal Kumar, J.I, Manishita Das, Rita N Kumar, and Rana Mukherji.2011. Assessment of heavy metal pollution in macrophytes , water and sediments of tropical wetland system using hierarchical cluster analysis technique. *J International Environmental Application and Science*. Vol.6 **ISSN: 1307-0428**
13. Nirmal Kumar, J.I, Manishita Das, Rita N Kumar, and Yamini Verma.2010. Spacial and Temporal patterns of waterbird abundance and species richness in seawagefed wetland Khodiyar , Gujarat,India. *Berkut The Ukranian J of Ornithology* .Vol.10 **ISSN: 1727-0200**
14. Rita N. Kumar, Rajal Solanki and Nirmal Kumar J. I. (2011): Assessment of spatial and temporal variation in Physico-chemical properties of water in river Sabarmati and Kharicut canal at Ahmedabad, Gujarat. *Nature Environment and Pollution Technology*. Vol.10 (1) 147-154. **ISSN: 0972-6268**
15. Nirmal Kumar, J.I, Rita N Kumar, Yamini Patel and Shailendra Viyol (2010): Short term assessment of hydro-geochemical properties in relation to phytoplankton occurrence in

- tropical estuary – Narmada of Gujarat, India. *Indian Journal of Environmental Sciences*. Vol (14) 19-28
16. Nirmal Kumar, J.I, Rita N Kumar and Shailendra Viyol (2010): Characterization of Hydro-Chemical Parameters in Relation to Freshwater Fraction Ingress in Tropical Narmada Estuary, Gujarat, India. *The Eco Scan- An International Biannual Journal of Environmental Science*. 4 (1): 49-52. *ISSN:0974-0376*
 17. Nirmal Kumar, J.I, Sajish P.R., Rita N. Kumar, Basil George and Shailendra Viyol (2011) “ An assessment of accumulation potential of Pb, Zn and Cd by *Avicennia marina* (Forssk.) Vierh. In Vamleshwar mangrove, Gujarat, India.” *Notulae Scientia Biologicae* 3(1): 36-40. Print *ISSN* 2067-3205: Electronic *ISSN* 2067-3264
 18. Nirmal Kumar, J.I, Sajish P.R., Rita N. Kumar, Basil George and Shailendra Viyol (2011) “ Nutrient Dynamics in an *Avicennia marina* (Forssk.) Vierh., mangrove Forest in Vamleshwar, Gujarat, India.” *Notulae Scientia Biologicae* 3(1): 51-56. Print *ISSN* 2067-3205: Electronic *ISSN* 2067-3264
 19. Nirmal Kumar, J. I, Basil George, Rita N Kumar, Sajish P.R. and Shailendra Viyol (2010): Biosorption of Mercury and Lead by dried *Aspergillus niger*, Tiegh isolated from estuarine sediments. *International Journal of Environmental Studies* 67(5):735-746.
 20. Rita N. Kumar, Sudeshna Chakraborty and Nirmal Kumar J.I. 2011. Methods to break Seed dormancy of *Andrographis paniculata* (Burm. F. nees): An important medicinal herb of Tropical Asia. *Asian J. of Exp.Bio.Sci.* 2(1): 143-146. *ISSN: 0975-5845*
 21. Nirmal Kumar, J.I., Rita N. Kumar, Anubhuti Bora and Manmeet Kaur Amb. 2010. Protein profiling of nitrogen fixing cyanobacteria under pesticide stress by SDS-PAGE. *Asian Journal of Environmental Science* 5(1): 23-28 *ISSN: 0973-4759*
 22. “*Singing out the Song of Subaltern: A (Post) Post-Colonial study of Arun Kolatkar's Kala Ghoda Poems*” in “*Glorious Trends: Indian Writings, Films and Translation*” (ed) Jaydeep Sarangi, Book Enclave, 2010, ISBN: 81-8152-283-
 23. “Portrait of an Artist as a Poet: Grasping the Grammar of Dilip Chitre *As is Where is*” in *Discourses on Contemporary Indian English Poets*(ISBN 978-81-89012-82-7), edited by K. Dominick published by Authorpress, Delhi.
 24. “Re-negotiating the Dialectic of Identity: Siting Indian Literature(s) on the Substratum of Translations” in “*Dialogue*”(ISSN 0974–5556) June, 2010 special issue on Comparative Literature.
 25. Dr. Hemang Desai's book of translation titled "Anuvidhan"(ISBN: 971-81-90949934), an anthology of post-modern post-global English-Marathi poetry rendered into Gujarati with three critical articles was published by Lajja Publishers, Vallah Vidyanagar in October, 2010.
 26. English translation of Sundaram's Gujarati story "Kholki" as "You, blockhead" in *Indian Journal of Post-colonial Literature*(ISSN 0974-7370), July-Dec, 2010
 27. Gujarati translation of Hemant Divate's Marathi poem as "Osadakavya" in *Etad*-182.
 28. Gujarati Translation of Dilip Chitre's English poems into Gujarati in *V-Vidyanagar*, March 2010.
 29. English Translation of Piyush Thakker and Rajendra Patel's poems in "Labyrinth" (ISSM 0976-0814) Vol.1-No.1, March 2010
 30. Gujarati Translation of Iranian poetess Forough Farokhzad's poem "One Window" in *Etad*, Jan-April, 2010.

31. Ms. Shreya Bhavsar , "Interface for Image Registration Process" International Journal Of Emerging Technologies And Applications In Engineering, Technology And Sciences, Volume Number: 4 Issue No. 1, Jan 2011, ISSN: 0974-3588
32. Mr. Chetan Dudhagara, "Evolving Neural Network Models, Hidden Markov models and Gibbs Sampling for Protein Secondary Structure Prediction" Journal of Advanced Research in Computer Engineering, Volume Number: 4 Issue No. 1 Jan – June 2010
33. Mr. Chetan Dudhagara, "A Case Study: Performance Evolution In Server Side Scripting Using Ajax Technology" International Journal of Computer Applications In Engineering, Technology and Sciences. Volume Number: 2 Issue No. 2, April 2010
34. Mr. Chetan Dudhagara, "Computational Approach in Drug Discovery : Molecular Docking Using Hex 4.5" International Journal of Information and Computing Technology, Volume Number: 1 Issue No. 1 July 2010
35. Mr. Chetan Dudhagara, "Interface for Image Registration Process" International Journal Of Emerging Technologies And Applications In Engineering, Technology And Sciences, Volume Number: 4 Issue No. 1 Jan 2011,ISSN: 0974-3588
36. Mr. Tejas Thakkar, Development of Agent-Based Knowledge Discovery Framework to Access Data Resource Grid, Advances in computational sciences and Technology Volume Number : 3 ,Jan 2010.

15. Honors /Awards to the faculty: National and International

- Mr. Urvish Chhaya was awarded the first prize in oral presentation in Microbiology in Gujarat Science Academy competition held at Gujarat Univeristy in March 2010.
- Mr Mayur Gehalout Research Student received first prize at the National symposium organized by BRD School of Biosciences "UGC- DRS symposium Recent Trends in Biological Sciences.
- Dr. Sudeshna Chakraborty was awarded first prize in poster presentation in the category of Plant Sciences at state level seminar on Innovative Approaches to Biological Sciences: recent perspective on 3rd Jan. 2011, at Nadiad, Gujarat
- Ms. Rajal Solanki was awarded first prize in poster presentation in the category of Environmental Sciences at State level Seminar on Innovative Approaches to Biological Sciences: recent perspective on 3rd Jan. 2011, at Nadiad, Gujarat.

16. Internal resources generated: NIL

17. Details of departments getting SAP, COSIST (ASSIST)/DST. FIST, etc. assistance/recognition: NIL

18. 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 2010-11:

Sr. No.	NSS Activities	Date
1	Inaugural Function of NSS	11.07.2010
2	Educational Tour	24.07.2010.
3	Attended Training Programme of NSS at Abu	24.07.2011 & 25.07.10
4	Blood Donation and Blood Group Checking Camp	04.08.2010
6	Swarnim Gujarat Coordinators Training Program	18.08.2010
7	Tree Plantation Programme	26.08.2010
8	Guest Lecture on "Importance of Reading"	26.08.2010
9	Inauguration of Knowledge Sharing Forum	21.09.2010
10	NSS Day Celebration (NSS Website Launching)	24.09.2010
11	One-Day Camp (Trip to Sardar Patel Memorial, Residence of Sardar, Shri Krishna Hospital)	28.09.2010
12	Ten day Self Defense Training Camp	23.09.2011 to 06.10.2010
13	Distribution of Warm Cloths	28.01.2011
14	Blood Donation Camp	02.02.2011
15	One Day Camp	02.03.2011

Silent Rally "Addiction, Eradication" and "AIDS Awareness":

- A silent rally with 25 posters based on the subjects "Addiction Eradication" and "AIDS Awareness" was organized on 21st December, 2010 which started from Patel Wadi and passed through almost all the streets of Gana village and took a halt at Indira Nagari Primary School. The target area was Indira Nagari, a slum area where students seemed to be surrounded by various addictions. Two NSS volunteers and a teacher, with the help of posters, explained students how addictions are harmful to them and made them take oath to stay away from addictions.

Skit on "AIDS AWARENESS":

- A skit on "AIDS AWARENESS" was performed on the same day by NSS Volunteers.

Seminar on "HIV / AIDS AWARENESS":

- A seminar on "HIV / AIDS Awareness" was organized on 22nd December, 2010 at Patel Wadi, Gana wherein Dr. Manisha Gohel, a doctor at Shri Krishna Hospital,

Karamsad made a power point presentation and explained students, how to spread awareness about HIV / AIDS and what precautions can be taken to prevent it.

Poster and Slogan Making Competition:

- Some groups of students organized Poster and Slogan making Competition on the subject of "AIDS Awareness" on 22nd December, 2010.

Ten-day Self-defense Training Camp at NVPAS

- The Faculty of Social Services and Woman Development Cell of the College jointly organized a Ten-day Self-defense Training Camp (from 1st Sept to 10th Sept., 2010 exclusively for female students wherein sixty students participated. In this camp, under the guidance of Mr. Jignesh Thakkar, District Director of Vadokai Karate Do Academy and Ms. Krishna Patel, (the coach) taught the students how to defend themselves with the help of various techniques of Karate.

19. Teachers and officers newly recruited:

Sr.No.	Name	Designation	Department	Year
01	Mr. Tushar G. Mehta	Lecturer	Computer	2010-11
02	Mr. Viresh A. Patel	Lecturer	Computer	2010-11
03	Mr. Thiruveni A.	Lecturer	Computer	2010-11

20. Teaching – Non-teaching staff ratio: 2010-2011

Sr. No.	Department	Total Faculty	Male	Female	Total Adhyapak Sahayak	Male	Female
01.	Microbiology	03	03	-	03	01	02
02.	Bio & ES	07	01	06	02	02	00
03.	BT/GT/BNF	07	02	05	-	-	-
04	Chemistry	11	08	03	02	01	01
05	Physics	06	05	01	02	01	01
06	Computer Science	14	10	04	-	-	-
07	Maths	04	03	01	-	-	-
08	English	03	03	-	-	-	-
09.	Office	09	07	02	-	-	-
10.	O.S.	Adhoc 01	01	-	-	-	-
11.	Physical Instructor	01	01	-	-	-	-
12.	Computer Programmer	03	03	-	-	-	-
13.	Library	02	01	01	-	-	-
14.	Chemistry Lab Asst.	03	03	Nil	-	-	-
15.	Physics Lab Asst.	01	01	Nil	-	-	-

16.	Bioscience Lab Asst.	04	02	02	-	-	-
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Teaching – Non teaching staff ratio- 55: 23 i.e. 2.3 : 1 ratio

21. Improvements in the library services:

- Our college library introduced Barcoding system for all the library books. The circulation of books by barcode system has been implemented from June 2010.
- Library staff keep themselves abreast of latest updates by attending training program, workshop etc.
- Provision of Wi-Fi facility in the library and surrounding library area facilitates the use of e-resources for the students and staff members.

22. New books/journals subscribed and their value:

BOOKS	COST (Rs.)	PERIODICALS	COST (Rs.)
136	42292.00	57	32000.00

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

Teachers' assessment by student feedback 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 program.

Student Feedback	Number of feed back	%
VERY GOOD	82	80.39%
GOOD	19	18.60%
SATISFACTORY	1	0.98%
UNSATISFACTORY	-	-
TOTAL FEED BACK	102	

24. Feedback from Stakeholder:

The feedback is taken from various stake holders time to time in order to know their views about the functioning of our Institutional process.

The parents are called on the predetermined day as per the college calender. They are also informed by sending the Principal's letter from the college office. The parents are given opportunity to meet the subject teachers and Principal directly and are permitted to discuss about their ward's progress, their needs if any or any suggestions for better functioning. The parents write their opinion in opinion book about how they felt about the institution. Moreover, the industrialists from nearby Industrial Estate, Academicians and other social/science related known personalities are invited to the institution who share their opinion

about the institution. The Principal takes a note of all the remarks and takes necessary steps towards the betterment.

25. Unit cost of education:

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(i) B.Sc. Program (2010-11)

(a) Including the salary component Rs. 45,027/-

(b) Excluding the salary component Rs. 06,920/-

(ii) B.C.A. Program (2010-11)

(a) Including the salary component Rs. 36,437/-

(b) Excluding the salary component Rs. 18,662/-

26. Computerization of administration and the process of admissions and examination results, issue of certificates:

1. The process of admission is supported by maximum use of computers. The office is equipped with five set of computers to carry out admission work. The admission details, allotment of Roll No, address, blood group, details of individual student, his/her marks in each practice test and internal exam etc are computerized and can be assessed by Principal and Counsellor any time.
2. The issue of certificates, recommendation letters etc. is computerized.
3. The administration process is further supported by providing individual Laptops to each Head of Department.
4. The college office has been provided with one more Laser Printer Canon. To support administrative work.

27. Increase in the infrastructural facilities:

The college has enhanced its infrastructural facilities remarkably.

1. Physics Department, Environmental Science Department & Chemistry Department. are provided with Newly designed glass cabin & furniture with total cost Rs. 88600/-
2. Library Cupboards with Glass Door for EEPC Books ... (02) Rs. 13,800/-
3. The centralized facility of DVD Player (LG) is raised which will be useful for all department purpose as well as centralized play of prayer CDs.
4. Purchased Laser Printer Canon 2900B and one Canon Scanner Lid 100 for Computer Science Department.

28. Technology up gradation:

The Biometric device has been installed in order to record in and out timings in automatic system. The system is applicable for teaching as well as Non-teaching staff members.

29. Computer and internet access and training to teachers and students:

For teachers:

- Hand on training is imparted by ISTAR (sister institution) for web designing. The faculty members are sent for participation.

For students:

- A Knowledge sharing session was conducted under the name Conoscenza was conducted once in a week by the students of Computer Science Department.
 - Computer Science Dept. has organized inter class 'Programming Competition' on 3rd August, 2010.
 - Computer Science Dept. has organized inter class 'Paper Presentation" for TY and SY students on 16th and 17th August, 2010.
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- Computer Science Dept. conducted Dot.Net Certificate Course for the college students and around 65 students enthusiastically participated and completed this course. The faculties involved in conducting this course were Mr. Pritesh Patel, Mr. Bhagvat Patel and Mr.Ranubha Gohil.

State Level IT competitions

No	Student Name	Class	Achievement
1.	Ami Patel	TYBCA(B)	Participated in Poster presentation competition & secured 2 nd rank at state level IT competition 'Techno Astrum' held at NVPAS.
2.	Kanan Mehta	TYBCA(B)	Participated in Poster presentation competition & secured 2 nd rank at state level IT competition 'Techno Astrum' held at NVPAS.
3.	Mayur Mondhe	TYBCA(B)	Participated in paper presentation competition & secure 1 st rank in Science Excellence, Gujarat University, Ahmedabad. Participated in Programing Competition at V.P. & R.P.T.P. Science College & secure 1 st rank.
4.	Umang Patel	TYBCA(B)	Secured 2 nd rank in C programming competition in state level IT competition 'Techno Astrum' held at NVPAS.
5.	Sagar Rank	TYBCA(B)	Participated in C Programming competition & secured 2 nd rank in state level IT competition 'Techno Astrum' held at NVPAS.
6.	Kushal Desai	TYBCA(B)	Secured 1 st rank in Paper presentation competition in state level IT competition at Charotar Institute of computer Application. Secured 2 nd rank in Paper presentation competition in state level IT competition 'Techno Astrum' held at NVPAS. Participated in paper presentation competition & secure 2 nd rank in science excellence, Gujarat University, Ahmedabad.
7.	Ritesh Rai	TYBCA(A)	Secured 2 nd rank in Paper presentation competition in state level IT competition in NVPAS.
8.	Darsh Mehta	SYBCA(B)	Participated in Paper Presentation & awarded third prize in state level Technical Event at H. L . Institute of computer Applications, Ahmedabad.
9.	Josmy Joy Sonal J Shah	SYBCA(A)	Secured 2 nd rank in Programing competition at National level IT competition Techno-Fest held at SEMCOM, V.V.Nagar.
10.	Khusbu	TYBCA(B)	Participated in Programing Competition at V.P. & R.P.T.P. Science College & secure 1 st rank

30. Financial aid to students:

The institution encourages the weaker section of the students by providing some Financial Aid.

This year the financially weak students were supported by providing following scholarships.

Scholarship	Amount
1. Natubhai V. Patel Charitable Trust:	Rs. 8000/-
2. Arbindo Mataji Scholarship:	Rs. 35000/-
3. Chandubhai C. Patel (Sunav-London Scholarship)	Rs. 7000/-
1) N.V. Patel Charitable Trust:	
1. Ashish Bhatt	Rs. 2667/-
2. Vani Sinh	Rs. 2667/-
3. Shailesh Chauhan	Rs. 2667/-
	Total Rs. 8000/-
2) Arbindo Mataji Scholarship	
1. Jigar Patel	Rs. 5000/-
2. Krina Gajjar	Rs. 5000/-
3. Dhaval Panchal	Rs. 5000/-
4. Jheel Patel	Rs. 5000/-
5. Dipen Patel	Rs. 5000/-
6. Nirav Panchal	Rs. 5000/-
7. Chirag Patel	Rs. 5000/-
Total	Rs. 35000/-
3) Chandubhai C. Patel Scholarship :	
Ms. Vaibhavi Patel	Rs. 7000/-

31. Activities and support from the Alumni Association:

1. Annual meeting of the NVPAS ALUMNI ASSOCIATION was held on 14th December 2010. More than 100 alumni attended this meeting. Farewell party for outgoing batch of BSc and BCA was held in March 2011. The students were blessed and enlightened about the prospects for higher study and job.

Activities of the association:

- **Annual Get-Together:** The annual get-together of the alumni association was clubbed with the Talent Evening this year held on 29th January, 2011. Dr. B.R. Patel (Ex-Principal) was the Chief Guest of the function.
- nvfriends@yahogroups.com :

A user group named nvfriends@yahoo.com has been created since 2004 to establish an interactive platform for the ex-students. More than 200 students are active in this group. A new community named "NVPAS Alumni Association" is created on orkut.com. All the current T.Y.B.Sc. students & past students are encouraged to join this community. More than 500 alumni have already joined this community.

- **Guest lectures:** Successful alumni are invited to deliver a talk for the current students.

32. 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 29th August for First semester B.Sc. and B.C.A. students during which more than 100 parents visited the institution. For Second and Third year B.Sc., the open house was held on 5th of December whereby 73 parents participated. For 3rd semester of B.Sc. and B.C. A. the parents were invited on 20th August 2010. The parents were informed about the students by sending letters. 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.

33. 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.

The NSS Unit, in association with A. D. Gorwala Blood Bank, Karamsad, organized Blood Donation and Blood Group Checking Camp on Wednesday, August 04th, 2010 wherein students, along with some staff members, enthusiastically participated. Hundred and ten units of blood were collected and more than hundred students got their blood group checked free of cost.

1. Blood Donation Camp:

- The NSS Unit, in association with A. D. Gorwala Blood Bank, Karamsad, organized Blood Donation Camp on February 2nd, 2011 wherein students enthusiastically participated. Seventy five units of blood was collected.

2. Free Medical Check-up Camp:

- A Free Medical Check-up Camp was organized on 19th December, 2010 at Kumarshala, Gana during the Annual NSS Camp held at Gana Village. A team of doctors and paramedical staff from Surajben Govindbhai Patel Ayurvedic Hospital, New Vallabh Vidyanagar examined more than one hundred and fifty cases were examined and medicines for three days were given free of cost.

3. Free Eye Check-up Camp:

- A Free Eye Check-up Camp was organized on 20th December, 2010 at Patel Wadi, Gana during the Annual NSS Camp held at Gana Village. A team of doctors and paramedical staff from Eye Department of Shri Krishna Hospital, Karamsad examined more than one hundred and sixty cases were examined and medicines for three days were given free of cost. The doctors assured to operate seventeen villagers suffering from cataract.

4. Yoga and Meditation Sessions:

- Sessions for Yoga and Meditation were arranged for students for two days.

5. Blood Donation Camp:

- On the same day, Blood Donation Camp organized with the help of A. D. Gorwala Blood Bank, Karamsad wherein 43 NSS Volunteers and 3 villagers voluntarily donated blood.

6. Interaction with Gynecologist:

- Dr. Chauhan, a renowned gynecologist had interaction about general female health problems with village women and female NSS volunteers on the same day.

7. Ten-day Self-defense Training Camp at NVPAS

- The Faculty of Social Services and Woman Development Cell of the College jointly organized a Ten-day Self-defense Training Camp (from 1st Sept to 10th Sept., 2010 exclusively for female students wherein sixty students participated. In this camp, under the guidance of Mr. Jignesh Thakkar, District Director of Vadokai Karate Do Academy and Ms. Krishna Patel, (the coach) taught the students how to defend themselves with the help of various techniques of Karate.

34. Performance in sports activities:

Under the constant guidance and inspiration of the Physical Instructor Mr. Dharmesh Patel and the Ex-Officio Advisors Dr. Ketul Patel

This year (2010-11) 180 students 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, inter class volleyball tournament and also at the university level.

Inter-Class Cricket Tournament:

Total of 18 teams participated. The winners were SY Chemistry and Runners Up were SY BT. The trophies were awarded to the respective teams.

Inter-Class Volleyball Tournament:

Total of 18 teams participated. The winners were TY Chemistry and Runners Up were TYBCA. The trophies were awarded to the respective teams.

Inter-Class Football Tournament:

Total of 16 teams participated. The winners were SY BT and Runners Up FY BCA. The trophies were awarded to the respective teams.

Sports Day (Annual Athletic Meet):

Following events were conducted on account of sports Day: Long jump, High Jump, Triple Jump, Discuss Throw, Short-put, Javelin Throw, 100, 200, 400, 800,1500 and 5000 mtrs running events. On this occasion our college cricket team played a cricket match against staff member team.

Inter College Tournament:

Our students participated in several inter collegiate tournament conducted by Sardar Patel University namely Badminton (Boys & Girls), Basket Ball (Boys & Girls), Table Tennis (Boys & Girls), Volley-ball (Boys & Girls), Chess, Football (Boys), Kho-Kho (Boys & Girls), Kabaddi (Boys & Girls) Handball (Boys & Girls), Cricket (Boys), Lawn Tennis (Boys & Girls) and Athletics (Boys & Girls).

Our College Team has become the University Runners – up in Basketball (Girls) Tournament. The Team members are : Nimisha Garwasis (Captain), Bhumika Raol, Nisha Jadav, Bansari, Maulika patel, Drashti Patel, Juby.K.James, Amitha Samuel, Zareen Gunderwala, and Bhakti Goswami,

Our College Team has become the University Runners – up in Volleyball (Girls) Tournament. The Team Members are : Pooja Joshi (Captain) Bhumi Patel, Nupur Patel, Aakanksha Sarada, Hinal Patel, Roshni Patel, Shaily Patel, Purvi Panchal, Ekta Patel, Khusbu Patel,

Our College Team has become the University Runners – up in Badminton (Girls) Tournament. The Team Members are: Pooja Joshi (Captain) Priyanka Soni, Maitri Shah and BijalSoni,

Our College Team has become the University Runners – up in Football (Boys) Tournament. The Team Members are: Aman Tilak (Captain). Bhavesh Chhabhaiya, Kushal Patel, Manan Shah, Sourav Guha, Japan Mehta, Romil Parmar, Sidharth Solanki, Jaydev Lokkraj, Sefal.

Patel D'Costa Daniel, Kapil Kanshra, Manish Prajapati, Tejas Patel, Karan Shah and Vivek Gadhvi.

In Swarnim Gujarat Khel Mahakumbh Competition Organized by Gujarat Government. Our college became Champion in Anand District in Football (Boys) and Basketball (girls) and Runners Up in Volleyball (Girls)

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. The students are:

Table Tennis:	Sheena Patel ,
Volleyball :	Pooja Joshi, Purvi Panchal and Nupur Patel
Chess :	Rohan Kapoor
Basketball :	Jalpan Pandya
Football :	Romil Parmar, Kushal Patel, Aman Tilak
Tennis :	Janak Mistry

35. Incentives to outstanding sportspersons:

The outstanding students are allowed to go out to participate in the sport activities . They are given special consideration for appearing in special examination due to their absence in regular exam.

36. Student achievements and awards:

- For the first time in Gujarat 14 students from one college (N V Patel College of Pure & Applied Sciences) cleared JNU CEEB test for MSc biotechnology where Pallavi Varshney and Badal Pandya of TYBT got merit position 14th and 16th at National level and got admission in JNU campus other 12 students got into different Universities for their MSc Biotechnology. These students are getting scholarship 1400/month for their MSc course.
- Mr Maulik Jani of TY Biotechnology got first in a National level 'Biotechnology Aptitude Test' organized by International Journal of Pharmaceutical Research. He received cash prize of Rs 5100/ and a certificate. Second prize was bagged by Ms Unnati Patel and third by Ms Prit Gandhi.
- Mr Maulik Jani and Ms Vani Singh of TY Biotechnology got success at national level entrance test for MSc PhD integrated course at national centre for biological sciences NCBS. Mr Maulik Jani was amongst first 200 students and got success in Tata Institute of Fundamental Research also.
- Maulik Jani and Jamuna Nawani of TYBT got first prize in A state level quiz competition held by Bhaskarcharya institute of space application and geo informatics through swarnim Gujarat.

- Following students won prizes in Science excellence programme organized by Gujarat university, Ahmadabad.
- Ms Ketki Gharpara from TYBT got first prize in oral presentation in the subject category of forensic science
- Noelle Nelson of TYBT got first prize in poster presentation in the subject Biotechnology.
- Anupriya Pande of TYGT got first prize in poster presentation
- Jigma Asnani of TYBNF got first prize in oral presentation
- Dhruva Raval of TYBNF got first prize in poster presentation
- Lisa Samuel of TYBT got second prize in oral presentation in Environmental science.
- Anu Nair of SYGT got second prize in poster presentation.
- Inter Collegiate Essay Writing Competition held at N. H. Patel College of Education, Anand on July 23, 2010 in which Ms. Dixita Patel of TY GT secured the First Prize.
- Ms. Binta Patel of SY Chemistry participated in poster making competition held at N. H. Patel College of Education.
- Inter Collegiate "Elocution Competition" held at Post Graduate Department of Economics, Sardar Patel University, Vallabh Vidyanagar on July 28, 2010. Ms. Hiral Sanghavi of SY GT won the Third Prize
- Rakhi Making, Friendship Band and Card Making Competition was organized on July 31, 2010 in which student participated with great enthusiasm and number. Pinal Patel, Ruby Kharwar and Mefuja Sarathwala of TY BCA, TY BNF and SY Chemistry secured First, Second and Third Prize respectively in Rakhi Making.
- Ms. Kamini Parmar of TY BNF secured first prize in Friendship band making competition.
- Ms. Kamini Parmar, Ms. Krishna Patel and Ms. Ruby Kharwar of TY BNF, TY Micro and TY BNF Secured First, Second and Third prize respectively in card making competition.
- Ms. Himadari Desai, Nishant Sukharia and Khushali Patel of SY INS, SY IT and SY Maths Secured First, Seocnd and Third prize repectively in Poster and poetry competition on eve of Raksha Bandhan.
- Ms. Hiral Sanghvi and Ms Chandini Desai of SY GT and TY BT secured First prize in Inter Collegiate Debate Competition held at C P Patel and F H Shah Commerce College, Anand held on August 13, 2010,
- Ms. Chandni Desai got First prize in the category of Best Individual Performance in the competition.
- Ms. Hiral Sanghvi of SYGT Secured the second position in Elocution Competition organized by Hiraba Mahila Mandal, Vallabh Vidyanagar held on September 14, 2010
- Ms Chandini Desai and Mr. Mihir Shah of TY BT and TY Micro Secured First Prize in Inter Collegiate Debate Competition held at N S Patel Arts College, Anand held on September 13, 2010.
- Ms. Chandni Desai received First Prize for the 3rd consecutive year in the category of Best Individual performance at the event.
- Mr. Mihir Shah received Third Prize in the category of Best Individual performance in the competition.

- Ms. Vruti Vora, Ms. Samapda Deshpande and Ms. Bhakti Patel of SY GT, TY Micro and TY BT secured First, Second and Third positions respectively in Rangoli Making Competition organized by Faculty of Creative Expression on September 14, 2010.
- Mr. Chintan Patel of SY GT Secured the First Prize Poster competition on Mahatma Gandhi during Gandhi Jayanti celebrations.
- Ms. Chandini Desai and Ms. Hiral Sanghvi of TY BT and SY GT secured Second position in Debate Competition of Youth Festival organized by Sardar Patel University on October 5, 2010,

Eight Gold Medals are secured by the student of this college at S.P. Uni. T.Y.B.Sc. Examination April, 2010.

Sr. No.	Name	Subject	Name of Gold Medal
01.	Bhupesh Popatlal Panchal	Industrial Chemistry	"Dipee Chemicals Private Limited (Ankleshwar) Gold Medal"
02.	Balvendrasingh Karansingh Chauhan	Instrumentation	"Charutar Vidya Mandal Gold Medal"
03.	Richa Bharatbhai Patel	Biotechnology	"Charutar Vidya Mandal Gold Medal"
04.	Kinjisha Dipakbhai Patel	Environmental Science	"Charutar Vidya Mandal Gold Medal"
05.	Rishita Das Rabindra Nath	Information Science *	"Charutar Vidya Mandal Gold Medal"
06.	Yashvi Bhadresh Shah	Genetics	"Dr. B.R. Patel Gold Medal"
07.	Hemal Vinodkumar Nirmal	Bioinformatics	"Dr. B.R. Patel Gold Medal"
08.	Bhupesh Popatlal Panchal	Industrial Chemistry	"Dr. D.A. Raval Gold Medal"

COLLEGE RESULTS AT UNIVERSITY EXAM IN THE YEAR 2010

As always our college results are best in University among all the Science colleges affiliated to it.

Sr. No.	Class	University Result	NVPAS Result
01.	F.Y.B.Sc.*	59.12%	78.41%
02.	S.Y.B.Sc.	88.78%	97.80%
03.	T.Y.B.Sc.	85.52%	93.69%
04.	F.Y.B.C.A.*	68.69%	79.03%
05.	S.Y.B.C.A.	81.66%	100.00%
06.	T.Y.B.C.A.	94.14%	100.00%

* As mass promotion was given in F.Y.B.Sc. & B.C.A. so all the students were promoted to S.Y.

37. Activities of the guidance and Counselling unit:

N V Patel College has established Counselling cell which provides group and individual counselling for personal concerns which are common amongst undergraduate students. Counselling is a process of self discovery over a period of time and growth. Counselling cell has one counselling co-ordinator and eight sectional coordinators to smoothly execute the entire process. Framing of Batches 25-30 students (F.Y./S.Y./T.Y) per counselor. Dr. Hemang Desai is appointed as counselling coordinator with 42 faculty members working as counsellors. The main process of counselling comprises of:

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

38. Placement services provided to students:

The Training & Placement Cell is performing its duty to provide training during vacation to infuse confidence & awareness to modern industrial & corporate environment among the students of the college. More over the cell is also performing task to 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. Training & Placement Cell is lead by Dr. Archana Shah, Lecturer in Industrial Chemistry.

This year the campus interview was organized for T.Y. B.Sc. students. Rubamin Company from Halol organized a campus interview at our institution and selected three students for their company.

39. Development programmes for non-teaching staff:

A talk by former registrar of university was organized for non teaching staff which helped the young staff to learn more about office work and management.

40. Good 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. Counselling system:** Counsellors are link between Faculty, Parents, administration, and Students
- 2. 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 enrol for Remedial classes which are conducted by the faculty before and after college hours Tutorjals
- 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 practical 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-

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 activities are coordinated by Mr. Amit Ballani and Mr. Kundan Kumar Mishra Lecturer in Biotechnology.

Gujarat State Biotechnology Mission (GSBTM) has selected our college as Capacity Building Cell for Anand, Kheda, Vadodara and Panchmahal region and Mr. Amit Ballani is Coordinator for the same. College received grant of Rs. 3,70,000 for conducting Two Six Days Crash Workshop and Two Invited Lecture Series in which students from various colleges from Anand and Vadodra region selected through online exams were given Intensive Training. This year total 14 students got selected through JNU Entrance Examination out of which 02 students Mr. Badal Pandya and Ms. Pallavi Varsheney got admission at JNU, New Delhi. **The EEPC Cell has selected 70 students. Last year 55 students got admission in PG at various reputed institutes.**

Through the efforts of EEPC Mr. Maulik Jani and Ms. Unnati Patel got First and Second Rank in Biotechnology Aptitude Test 2010 conducted by IJPR, Surat. Additionally Mr. Maulik Jani and Ms. Vani Singh have cleared TIFR, Mumbai and NCBS Bangalore Entrance Examination for this academic session.

12. NCC

- Sgt. Bhumika Raol had presented Patriotic Poem in Independence day Celebration
- SUO Khushali Patel and UO Dixia Trivedi had participated Pre-TSC Camp at Vadtal and selected for Group Representation at Ahmedabad
- Actively participated in Republic Day Parade at Shastri Ground
- 100% Result in "B" & "C" Certificate during the year 2009-10.
Actively participated in Inter Collegiate Firing Competition held at Rampura on 6th Feb

13. NSS

The National Service Scheme (NSS) Program officers: Dr. Yogesh Patel, Mr. Kartik Jagtap, Ms. Kinnari Trivedi & Mr. Bhagvat Patel

1. This year total 250 students were enrolled in NSS Unit. The NSS unit carried out several social and Health related activities through out the year.
Establishment of red ribbon club (11th July,2010),
blood donation camp 04th August, 2010
"Tree Plantation Programme" 26th August, 2010.
Knowledge Sharing Forum, September 21, 2010.
"NSS Day" was celebrated on September 24, 2010 in the college auditorium.
A One-Day Camp, September 28th, 2010

The ANNUAL NSS CAMP at Gana Village between December 17 to 23 rd December ,2010. Total 125 (One Hundred and Twenty-five) students participated.

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. 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.

16. 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.

Suggestions and complaints regarding the availability of the books and the facility in library are also taken care of. We have also put two suggestion boxes one in the library and other in the college.

17. PDP: The personality Development Programme classes were 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 Globe Arena also conducted classes. This year mock interview session was conducted with very good response from students.

18. Industrial visit/ Academic visit:

- Students of S.Y. B.Sc. (ES) visited marine camp at Bet Dwarka Okha Jamnagar from 6th Jan, 2011 to 8th Jan, 2011 accompanied by Dr. Nitin Kumar Sharma, Dr. Sukalyan Chakraborty, and Dr. Isha Desai.
- Students of S.Y. B.Sc. (ES) visited Amul dairy industry wastewater treatment plant accompanied by Dr. Nitin Kumar Sharma and Dr. Leena Abraham.
- Students of S.Y. B.Sc. (ES) visited metrological department of Anand Agriculture University accompanied by Dr. Sukalyan Chakraborty
- A study tour has been conducted for students of T. Y. E. S. to Bangalore – Mysore , Ooty and Banglore in the first week of February accompanied by Dr. Rita N. Kumar,

Dr. Sukalyan Chakraborty, Dr. Ami Patel ,Dr. Nitin Kumar Sharma and Dr. Leena Abraham.

- Computer Science Dept. has arranged Industrial Visit to Kheda District Cooperate Milk Producers Unit Ltd, Khatraj, Nature Park and Aksharadham at Gandhinagar on 17th September 2010.
- The department organized industrial Visit to Atul Industries, Atul, Valsad, during the month of September – 2010 for the students of SYBSc & TYBSc instrumentation classes.
- Computer Science Dept. has arranged one day Industrial Visit to Forensic Lab, Gandhinagar on 4th and 5th December 2010.
-

41 . 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.

42. Action Taken Report on the AQAR of the previous year:

- **Faculty Development Programs:**
- More than 45 faculty members have participated / attended various seminar and symposia of National and International level during the academic year .
- Six faculty members completed their Ph.D. program.
- There are seven faculty members recognized as Ph.D. Guide.
- Eleven academic seminars/ conferences were conducted by various departments to keep abreast with the latest development of subject.
- The Career Oriented Certificate Course has been initiated in Industrial Biotechnology for which the amount of Rs.10 lakh is sanctioned by UGC. The course has commenced from this academic year..
- Four Research projects were received this year in various departments

Updating of present system by introducing Semester and CBCS system

- The semester system has been successfully implemented and choice based credit system is made effective for first year students.

Innovations in curricular design and transaction

- The curriculum for various subjects as per the need of CBCS system and as per new structure have been designed and made effective from this academic year.

43. Any other relevant information the institution wishes to add: NIL

Section C: Outcomes achieved by the end of the year (attach separate sheet if required).

Same as described in 42

Section D: Plans of the HEI for the next year

1. Reform in Examination pattern : As per the changing pattern of academics and introduction of new systems, our institution has visualised to undertake some changes in prevailing examination system of the institution which will be made effective from next academic year. The weekly practice tests will be converted into unit tests due to semester pattern. Moreover, there will be a due weightage of marks for these tests as Internal Marking.

2. Student centric activities : Our institution has decided to start student centred activities by initiating following two clubs.

A. Carbon Foot Print Club:

The Carbon Footprint Club has been a joint venture of Dept of Bio & Env. Science and Hi Speed Turbo of GIDC, Vitthal Udyognagar. It's based on the idea of creating awareness among students, among community about the CO₂ emission and knowing own carbon foot print. This carbon footprint club is first of its kind not only in the state but whole of India.

This club has following aims and objectives:

1. To create awareness among students and society
2. To collect and publish the information about energy saving and environmental protection
3. To develop community spirit of better civics and traffic sense
4. To prepare local calculator for carbon footprint
5. To carry out survey of Industry/ organization to measure carbon footprint and monitor the progress
6. To publish in house journal
7. To instil and inculcate the leadership qualities among students.
8. To make youth responsible citizens by knowing their carbon footprint.

B. Tech Innopreneur Club :

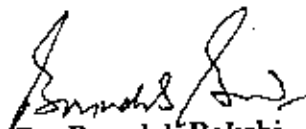
This club envisions to combine three virtues : technology Development, Innovations and Entrepreneurship. The club would be involved in identifying, motivating and nurturing these virtues by variety of activities by a group of mentors and dedicated

students. The activities of this club include patent registration and technology transfer, brainstorming and idea contest, development of new products or tools/ software and entrepreneurship skills development workshop by successful entrepreneurs.

The club is only recommended for those students who wish to create something of their own as an innovative solution or a product or software based on some identified challenge or a problem. TIC would provide mentors (inhouse and invited professionals) and time bound project and an opportunity to generate a IPR (Intellectual Property Right). Protected product that can be sent to market and patented in the name of team that has generate the product.



Dr. Rita N. Kumar



Dr. Basudeb Bakshi

Head,

Department of **(Coordinator of IQAC)**

Environmental Sciences

Natubhai V. Patel College of

Pure & Applied Sciences

Vallabh Vidyanagar-388 120

Dist. Gujarat

(Chairperson of IQAC)

Principal

Natubhai V. Patel College of

Pure & Applied Sciences

VALLABH VIDYANAGAR.

