

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

Report - 2011-12

SMT. PARVATIBAI CHOWGULE CULTURAL FOUNDATION'S COLLEGE OF ARTS & SCIENCE, MARGAO-GOA, 403602

Smt. Parvatibai Chowgule College is a premier institute in the state of Goa that offers courses in Arts and Science at the Graduate and Postgraduate levels. It is accredited by the National Assessment and Accreditation Council (NAAC) with a cumulative grade point average of 3.29 out of 4.00, the highest for any College in Goa. It has been adjudged as the “Best Affiliated College” by Goa University at the time of its Silver Jubilee in the year 2009. We are proud of the fact that we are the first College in Goa to achieve this status.

Chowgule College was founded in 1962 at Aquem, Margao by late Shri. Vishwasrao Chowgule. Initially, it was affiliated to the University of Bombay. On 19th June, 1986 the affiliation was transferred to Goa University. The College has always been at the forefront in educational innovations. In 1986, the College pioneered computer science education in Goa by starting a Post-Graduate Diploma in Computer Applications. In 2004, the college initiated post graduate courses in Information Technology and Geography. In subsequent years looking at the societal needs, Biotechnology and Psychology were introduced at undergraduate level and post graduate diplomas in Geoinformatics and Human Genetics & Pathological Techniques were started. To give professional edge to the students, the college initiated the Honour's Programme from 2010-2011. Today, the College runs a number of undergraduate and post-graduate programmes and courses, some of which are unique in Goa. There are now twenty undergraduate and three post-graduate departments in the College.

The courses offered at undergraduate level in the Arts stream are: *English, Hindi, Konkani, Marathi, French, Portuguese, Economics, Geography, Sociology, Mathematics, History, Philosophy, and Psychology* and in the Science stream: *Botany, Chemistry, Computer Science, Geography, Geology, Mathematics, Physics, Zoology, and Biotechnology*. All these subjects are offered as either six units or three units at the third year level.

The Chowgule Education Society has initiated massive infrastructural development at the College, as a result of which state-of-the-art infrastructure is available for curricular, co-curricular, extra-curricular activities and sports.

Infrastructure added over last five years include: science laboratory block, multimedia-equipped auditoriums, classrooms, conference room, campus-wide Wi-Fi network enabled campus, computer labs, web-based virtual infrastructure for teaching-learning (C-LAAP, C-mail, online library), computerized library, well equipped faculty offices, FIFA accredited football ground with field turf, multipurpose ground, gymnasium and fitness center, sports medicine and physiotherapy center, open-air seating arrangements, new canteen, well maintained rest-rooms, spacious well-laid four-wheeler and two-wheeler parking grounds and new administrative offices. The entire campus and the administrative buildings have been re-engineered. Many of the science departments have research laboratories to carry out extensive and specialized research. Further, the college has ventured to provide various support services aimed at providing motivation for the students to excel. These support services include the office of Information Technology, estate office, Student Support Services, Tiger's Sports School, centralized printing facilities and in house stores.

To give international exposure, the college has a Cultural Exchange Programme with various institutes in Sweden. The college also invites foreign faculty on the campus. The college has signed Memorandum of Understanding with national and international organisations to collaborate for academic and research enhancement. There is persistent effort by the college to bring significant changes in higher education.

Section A:

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

The IQAC streamlined the following objectives for the academic year 2011-12.

- a)** To provide international exposure to students and faculty through exchange programmes, international linkages and participation in international deliberations.
- b)** To provide professional edge to the students by offering academic programmes and skills viz. Honours Programme and various Certificate courses.
- d)** To initiate new methodologies in teaching and learning and also enhance research amongst faculty and students.
- e)** To improve on - going practices by developing systems that will increase efficiency in work culture.

Section B:

1. ACTIVITIES REFLECTING THE GOALS AND OBJECTIVES OF THE INSTITUTION

The focus being on internationalization of the College, the college has initiated exchange programmes, special lecture series and courses by foreign faculty and faculty from different Universities in India to participate in the international forums. Accordingly, Prof. Georgia Lyons (Grammar granny) from Nipissing University, Canada, Dr. Saori Sadoshima, Director, Writing Centre, Waseda University, Tokyo, Japan, Prof. Robert Witmer, Sophia University, Japan were invited to conduct workshops and courses for students and faculty.

Dr. M. P. Shivalli, our librarian received the commonwealth scholarship from the British council and she was in UK for four months. Dr. Nandkumar Sawant received the “Best Teacher Award” given by Goa University for the year 2010-2011. Many of the faculty members participated in conferences, published papers and books and also received research grants. Some of our departments also organized conferences and seminars. This is indicative of higher research in the Institute. To adopt best practices, a few departments undertook “Bench Marking”.

The performance of our College in the examinations conducted by the Goa Board and Goa University was excellent. The College achieved 95.52% results in T. Y.B.A. and 94.34% in T. Y. Bsc examinations conducted by Goa University. The results of Postgraduate courses were also excellent and we achieved 100% results. Miss Shruti Bhathire scored the highest marks in Economics at the Goa University and won the K. Hazare Memorial Award. This is the second consecutive year that a student of the Department of Economics, of our College, bagged this coveted award of Goa University.

In co-curricular activities, our college won the overall championship of the 16th “All Goa Yuva Mohotsav”, a state level cultural event. In sports, the college won two University titles and many students represented state and national level competitions.

2. New academic programmes initiated –

a) Honours Programme:

Honour’s Programme was initiated by the College in 2010 to enhance the professional edge of the students. The same has been carried over to semester III and IV (second year

progression). Honours courses emphasize critical and independent thinking to produce creative applications. A student will get college accredited 'Honours Degree' on successful completion of six modules spread over the six semesters.

The following Honour's Programmes are offered by 14 departments.

- Chemical Analysis and Quality Management
- Banking & finance and Economic Journalism
- Advanced Botany
- Wildlife Conservation and Management
- Honours programme in Psychology
- Honours programme in Geology
- Research Methodology in Social Science
- Mass Media and literary studies
- Honours Programme in Computer Science
- Functional Hindi
- Honours in Geomatics
- Honours in Tourism Management
- Writing Skills for Mass Media
- Honours Programme in Konkani

b) Edusat Programme:

The Department of Geography also started "EDUSAT Based Distance Learning Program" in "Basics of RS, GIS and GPS" and "Advances in Geo-Informatics" for students doing Postgraduate Diploma in Geo-informatics from this academic year. This is a three month course, telecast from Indian Institute of Remote Sensing, Dehra Dun.

3. Innovations in curricular design and transaction:

The departments offering honours programme were involved in formulation of syllabus and curriculum, was purely done by the faculty of the college.

4. Inter-disciplinary programmes started: The Honours Programme is inter-disciplinary in nature. Any student of any class and stream can opt for this programme. There is vertical as well as horizontal mobility.

5. Examination Reforms implemented:

The present semester based University examination system has two components

(a) ISA (Intra-Semester Assessment)

(b) SEE (Semester End Examination)

- Accordingly, the college has designated a Convener of examinations and two examination committees for effective management of ISA & SEE. Both the committees carry out the duties allotted, which include the collection of question papers, preparation of examination schedules, conducting of examinations, collection of assessed answer sheets and preparation of results. This ensures smooth functioning of examination without burdening a certain section of teachers. Secondly, all the teachers submit typed question papers which has minimized manual error and enhanced proof reading of the question papers.
- Though the University has allowed flexibility in the conduct of ISA, the College has adopted a uniform pattern for effective functioning of the same. The College conducts two ISA's in two different formats. The first is written examination conducted as per a certain schedule intimated in advance to the students. Secondly, the written assignment follows a prescribed format of writing.
- This year a series of workshops were conducted on "Academic Assignment writing" to improve the quality of assignment, as it is one of the internal assessment component.
- Display boards of the schedule of the examination and marks allocations for each of the examinations are put at various locations on the campus with the objective of encouraging students to appear for examinations as per schedule.
- Further, at the time of admission, a student's handbook is given which displays the schedule of the examination and marks allocation too. This is essential to ensure students appear for both the ISA's as it is a prerequisite of being eligible for SEE's (Semester End Examinations). Further during the induction programme for the First Year students, a session on examination pattern is conducted.
- Lastly, to have zero error result, the Examination Committee scrutinises individual entries of each paper before the final feeding of the result.

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

There are two faculty members who have cleared NET/SET/GATE:

- a. Mrs. Amruta Bhambure passed UGC-JRF 2011 examination.
- b. Mr. A. Ashish, Assistant Professor, cleared Lectureship Eligibility Test conducted by CSIR, New Delhi. He stood 30th in the all India ranking.

7. Initiative towards Faculty Development Programme:

The Program is an ongoing process and College aspires to enhance qualities of teachers in teaching, learning and research. The following faculty development programmes were conducted for the staff.

Faculty Development Programmes

Sr.No	Dates	Programmes
1.	27 June, 2011	Prof.Georgia Lyons from Nipissing University, Canada conducted training sessions for staff members of Writing Centre.
2.	30 June, 2011	“Assignment writing” a workshop for students was conducted by Prof. George Lyons from Nipissing University, Canada
3.	22 August, 2011	“Brainstorming” workshop conducted by Dr. Saori Sadoshima, Director, Writing Centre of Waseda University, Tokyo, Japan.
4.	24 August, 2011	“Plagiarism” conducted by Dr. Saori Sadoshima, Director, Writing Centre of Waseda University, Tokyo, Japan.
5.	26 August, 2011	Dr. Saori Sadoshima conducted a workshop on “Assignment writing”.
6.	15 January, 2012	Workshop on Net conducted by Mr. Naushad Kapadia “Quartz systems” and felicitation of meritorious students of the Computer Science Department.

7.	24 January ,2012	Department of Computer Science organized a one day workshop for college teachers of Goa in the subject of computer networks.
8.	16 February ,2012	“Critical Thinking Certificate course was conducted by Prof. Robert Witmer, Japan.

Here is a list of individual faculty members who attended various courses, exchange programmes etc.

- (a) 9th-10th September, 2011 Prof. N.G. Rivonkar, Dr. Roopa Belurkar and Prof. Mrs. Manjita Porob attended a workshop on “Nuclear Energy-Benefits and Safety Aspects.”
- (b) 7-11 October, 2011 Dr. R.V. Gaonkar attended the Executive Development Programme.
- (c) 4th & 5th November, 2011, Personal Counselor, Ms. Akila S. Kalsur attended a workshop on “Behavioral Activation for Depression.”
- (d) 14th-26th November, 2011 Mrs. Anagha Dicholkar attended a ten days training programme in Research Methodology and also attended refresher course in Social Sciences conducted by Goa University in April 2012.

8. Total number of seminars/workshops conducted during the academic year:

- (a) Seminars/conferences: During the academic year, faculties presented research papers or attended conferences, seminars (Annexure I).

National: 04

- a) The Department of Marathi organized a National seminar on “Comparative Literature and Comparative culture study” on 16 and 17 December, 2011.
- b) The Department of Chemistry organized a 2-day UGC sponsored National Seminar on “Nanomaterials: Synthesis and Characterisation and Application” on 2nd & 3rd February, 2012.
- c) National seminar on the theme “Pragatisheel Kavita ke Pachahhatat Varsh” was organized by Department of Hindi on 13-14 March, 2012.
- d) The department also organized National Conference on “Emerging Technologies, Methodologies and their Applications in Geography” on 26th & 27th March, 2012.

State:05

- a) Department of Economics, in association with the District Legal Services Authority of Margao, organized a seminar in the area of Economic Legislation as part of the courses “Economic Legislation” (Sem. I), and “Industrial Relations and Labour Welfare” (Sem. III). on 13th July 2011 . Judge Narayan Amonkar was the Chief Guest for the function. Other speakers included advocates Uday Bhembre, Auda Viegas, Ranjana Ferrao, and Lida Joao.
- b) Seminar on “Role of NCC cadets in Nation Building” on 17th July ,2011
- c) The Department of Geography organized State Level Conference on “Goa: Land and Its People – Reviewing Transformation in the Post Liberation Era” in collaboration with Department of Sociology and Directorate of Art and Culture, Government of Goa on 27th & 28th January ,2012.
- d) State level seminar on Gomantakiya “Swatantrya Sainikanchi Marathitil Atmasharitra” on 20th march, 2012.
- e) The Department of Economics, in collaboration with the Goa Economics Association is organizing a one-day State Level Conference on the “Goan Economy” on 24th March, 2012.

Workshops:

A series of workshops were conducted on various themes.

- a) **4th July, 2011** Writing Centre organized a workshop on “Assignment Writing” conducted by Prof.Georgia Lyons, University of Nipissing, Canada for the undergraduate students.
- b) **7th July, 2011** Writing Centre conducted a workshop on “Clauses”. Resource person was Prof. Georgia Lyons, University of Nipissing, Canada.
- c) **8th July, 2011** Workshop on “Prepositions.”
- d) **22nd August, 2011** Writing centre organized workshop on “Brainstorming” conducted by Dr. Saori Sadoshima.
- e) **24th August, 2011** Dr. Saori Sadoshima, Director of the Writing Centre, Waseda University, Japan conducted a workshop on “Plagiarism” in the auditorium.
- f) **26th August , 2011** Dr. Saori Sadoshima conducted a workshop on “Assignment Writing” in the auditorium.



Workshop on "study skills and careers" counseling



State Level Discussion Forum

- g) **28th August, 2011** Workshop on “Innovative methods of Achieving Success” for NSS volunteers.
- h) **24th September, 2011** Department of Psychology, in association with the Career and Personal Counseling Centre organized a Workshop on ‘Career Guidance and Effective Study Skills’
- i) **29th September, 2011** The Geography Department organized a One-day Workshop on “Enhancing Techniques in Map Interpretation” for Third Year BA students of Geography in Goa.
- j) **26th November, 2011** English Department organized a Workshop on “Theatre”. Resource person for the workshop was Mrs. Cassandra Gonsalves from Loyola High School, Margao.
- k) **14th December, 2011** Department of History organized a workshop on “Insights into the Liberation of Goa” as a part of Golden Jubilee celebrations of Liberation of Goa the Guest of Honor, Lt. Cdr John Eric Gomes who was a participant in the Operation Vijay was the resource person.
- l) **15th January, 2012** Workshop on NET conducted by Mr. Naushad Kapadia, “Quartz Systems” for Computer Science students.
- m) **24th January, 2012** Department of Computer Science organized a One day workshop for college teachers of Goa in the subject of Computer networks.
- n) **7th February, 2012** One Day State Level Workshop On “Karyotyping of human chromosomes–technique and application” was organized by Chowgule’s Human Genetic Research Lab (CHGRL) & Department Of Zoology.
- o) **28th February, 2012** Konkani Department organized a workshop on “Compering for students”.

Faculties invited as Resource Person:

The expert guidance of our faculty is sought by many colleges within the state as well as country. Our faculties who were invited as resource persons in various educational institutions across the nation are :

- Ms. Sameena Falleiro was invited as a Resource Person to deliver sessions and provide hands-on training to faculty from various colleges affiliated to SNDT Women’s University, Mumbai. The workshops were based on “Integrating ICTs in Higher Education” organized by SNDT University, Mumbai in collaboration with

Commonwealth of Learning (COL), Canada. She delivered sessions on both the SNTD campuses. Pune (15th -19th Sept 2011) and in Mumbai (14th -18th Nov 2011).

- Dr. Nandkumar Sawant was plenary Speaker on “*Overseas Migration of the Goan Catholic Men folks and its Ramifications on their spouses: A Case study of Rural Salcete, Goa-India*”, at National Conference on “Human Migration in the Indian Subcontinent: Complexities Challenges & Implications” at the ICG Campus Jaipur on 9th September, 2011. He delivered talk on “*How to Choose Careers*” for workshop organized by Career and Personal Counseling Centre (CPCC) and the Department of Psychology on 24th September, 2011.
- Dr. Nandkumar Sawant was resource person for the workshop organized by our College on “*Enhancing Techniques on Map Interpretation*” on 29th September, 2011 for T.Y.B.A Geography students and delivered a presentation on “*Topographical Maps*”.
- Dr. Nandkumar Sawant was also resource person on “*Quality Education and Healthy Habits*” at National Conference on “Quality Sustenance: Challenge in the Post-Accreditation” on 17th & 18th October, 2011, organized by Dr Ghali College, Kolhapur.
- Dr. Nandkumar Sawant delivered lectures in Population Geography for NET/SET Preparatory classes at Shivaji University, Kolhapur on 5th Jan, 2012.
- Dr. Nandkumar Sawant was invited to speak on “Global Climate Change, Mitigations and Adaptations in Agriculture – An Overview” at UGC sponsored National Conference on “Climate Change and Agriculture Problems” on 13th and 14th February, 2012 at Latur, Maharashtra.
- Dr. Veeresh delivered lectures to NET/SET students at Goa University in the months of October & December, 2011 under the Minority Cell. He was also invited as a Resource person for the UGC Sponsored Two Day National Conference on “Conservation of Biodiversity – With special reference to Global Issues & Ethnobiology” on 31st January, & 1st February, 2012 at K.L.E. Society’s Shri Shivayogi Murughendra Swamiji College, Athani, Karnataka.

9. Research projects:

There have been constant efforts to enhance research in this College, therefore there has been constant motivation to submit research projects to various agencies. Accordingly, following research projects were funded.

Major Research Project:

- Dr. Sanjay Gaikwad received a grant of Rs 9 Lakhs from Ministry of Science and Technology, Government of India for conducting an NRDMS Summer School in the field of Geospatial Technologies.
- Dr. Sangeetha Sakhalkar, Department of Science & Technology, Government of India, received a research grant from DST for major research project entitled "Nonenzymatic (ascorbate induced) antioxidant enzyme protection in rice seedlings (salt tolerant) grown in saline khazan fields of Goa & its comparison with salt sensitive rice variety"

Minor Research Projects.

- Dr. Sanjay Gaikwad , was sanctioned a pilot project on "Village Information System" for Surla and Velgeum Villages of Bicholim Tahsil, Goa, sponsored by Goa Mineral Ore Exporter's Association, Panaji, Goa. The amount sanctioned for project was Rs 44,000/-

10. Patents generated, if any- NIL

11. TOTAL RESEARCH GRANTS RECEIVED FROM VARIOUS AGENCIES:

Sr No.	Faculty	Amount (Rs)
1.	Dr. R Kanchana	Rs 1,20,000/-
2.	Dr Shaila Ghanti	Rs 1,55,000/-
3.	Dr. Sanjay Gaikwad	Rs 44,000/-
4.	Dr. Sangeeta Sakhalkar	Rs 13,00,000/-
	TOTAL	Rs 16,19,000/-

(Rupees Sixteen Lakh Nineteen Thousand Only)

12. Details of research scholars: Nil

13. Citation Index of faculty members and Impact Factor

Research papers and books were published by faculty members during the academic year (Appendix II). The details of the books published are given in Annexure II.

14. Honors/Awards to the faculty.

- **Dr. Nandkumar Sawant** was awarded the “**Best Teacher Award 2010-2011**” by Goa University on the occasion of 27th Foundation Day at the hands of His Excellency, Shri. S. S. Siddhu, Ex-Governor, Goa on 30th June, 2011.
- **Dr. Devashish Bagchi** who is the member of Goa State Veteran Cricket Team which was the South Zone champion in the year 2011, was declared ‘Man of the Match’ in finals & ‘Man of the Series’ as well.
- **Dr. Nandkumar Sawant and Mrs Sapana Naik** were presented a “**Certificate of Appreciation**” in recognition of selfless dedication and service to community, on 7th September 2011, by the Rotary Club, Margao.

Ph.d. Awarded.

Sr .No.	Name	Department	Title of Thesis	University
1.	Dr.Devashish Bagchi,	Head, Department of Physical Education & Sports	“Relationship of selected Anthropometric and fitness variables with the velocity of ball in fast bowling in cricket”	LNCP Gwalior

15. Internal resources generated:

a) Self-financed courses: Rs 63, 00,000/-

b) Add on courses : Rs 2, 04,000/-

Writing Course	Rs 10,000/-
Portuguese Course	Rs 1, 94000/-
Total	Rs 2, 04,000/-

Thus the total income received from a) & b) is Rs 65, 04,000/-

16. Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes:

- Dr Sangeeta Sakhalkar of Botany Department received a research grant from DST for a Major Research Project.

17. Community services:

The College undertook various Community Outreach Programmes.

- Diwali Vacation Camp named 'Creative Leisure Pursuit' was organized by Tiger School in the month of Oct/Nov, 2011.
- More than 160 children participated in multiple activities at the camp, free of cost.

NSS:

This year our NSS unit has organised a seven day Annual Special Camp at Pragati Vidhyalaya, Bori, Ponda. 73 volunteers and seven teachers participated in the camp. Apart from regular activities, N.S.S Volunteers participated in visits to orphanages, old age homes, hospital work, blood donation on emergency call etc.

Activities:

- 13th – 24th September, 2011, 'Plastic Milk Packet Collection Project' in College premises.
- 10th- 13th November, 2011,undertook the distribution of Filaria tablets, through the Goa Health Department in Fatorda area, Margao

NCC:

- As a part of Community Outreach Programme,our NCC unit organised 'Tree Plantation' on 7th August, 2011. IAS Officer, Dr. G. Sreekumar Menon distributed 100 saplings to cadets for planting in their respective areas of residence.

18. Teachers and officers newly recruited:

Teaching : 37 (contractual and lecture basis)

Non-Teaching: 26

19. Teaching – Non-teaching staff ratio: 96:84 thus ratio comes to 8:7

20. Improvements in the library services:

Apart from the regular services, other services provided by the library are Digital Library, OPAC (On-Line Public Access Catalogue), E-resources, E-books etc.

The Library is also kept open to the public wherein any citizen could avail of the facility of borrowing books by:-

- Using the rare reference collection
- Access to the OPAC (Online Public Access Catalogue) for searching 33000 books & 2100 journals.
- Students can borrow twenty books at a time.

Collection is one of the important functions of a library that supports academic and research work of the students and faculty, staff and other users. Library collection comprises of books, journals, theses, reports, films and other reading material in science, humanities, social sciences and languages.

21. New books/journals subscribed and their value

Books

Sr. No.	Source	Amount Spent (Rs)
1	Out of fee collection	Rs 33,9757/-
2	Self-finance	Rs 50021/-
	Total	Rs 3,89,778/-

Journals

Sr. No.	Source	Amount Spent (Rs)
1	College Budget	Rs 89,000/-
2	Self-finance	Rs 50,852/-
	Total	Rs 1,39,852/-

Total number of 805 new books were purchased at a cost of Rs 3,89,778/-

Total number of 71 journals & magazines were subscribed at a cost of Rs 1,39,852/-

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

The College has continued the student assessment of teachers for all the courses. At the end of the academic year, every teacher is assessed by the students for a course taught by the teacher. Based on the feedback, every teacher prepares an action plan which is discussed at the departmental meeting and subsequently with the Principal. The College has started with online assessment from this academic year.

23. Feedback from stakeholders:

The curriculum for Honor's Programme, certificate courses and diploma courses were designed after consulting specialists in the subjects / industrialists / potential employers / Institutes etc. Most of the guest lecturers / visiting faculty for these courses are experts in their respective fields and their inputs and feedback is given due importance for review and redesigning the programmes.

The College has continued with the practice of Benchmarking by visiting esteemed institutes / departments in the country and has adopted healthy practices of the same.

Additionally, feedback from students and academic peers is obtained regularly both through informal discussions as well as from formal feedback sheets in which students responses on teachers and course evaluation are recorded. Informal feedback from parents and the community generally comes through the Staff Advisory Programme.

24. Unit cost of education:

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

- a) Including the salary component – Rs 19, 6, 726 /- for aided courses and Rs 63, 110/- for self financed courses.
- b) Excluding the salary component – Rs 79, 046/- for aided courses and Rs 45, 152/- for self financed courses.

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

The administrative system is fully computerized. All current records and institutional data, including accounts are computerized. The College has its own website providing details of all

courses offered, various subject combinations and fee structure. Admissions are done online. Examination related work (results and preparation of mark sheets) is also computerized.

All types of forms ranging from admission form to withdrawal form for faculty and students are now available on the website. The information on our college website is continuously updated, which includes details of notices, upcoming events, as well as news items concerning our staff and students. The college offers generic email addresses to both staff and students.

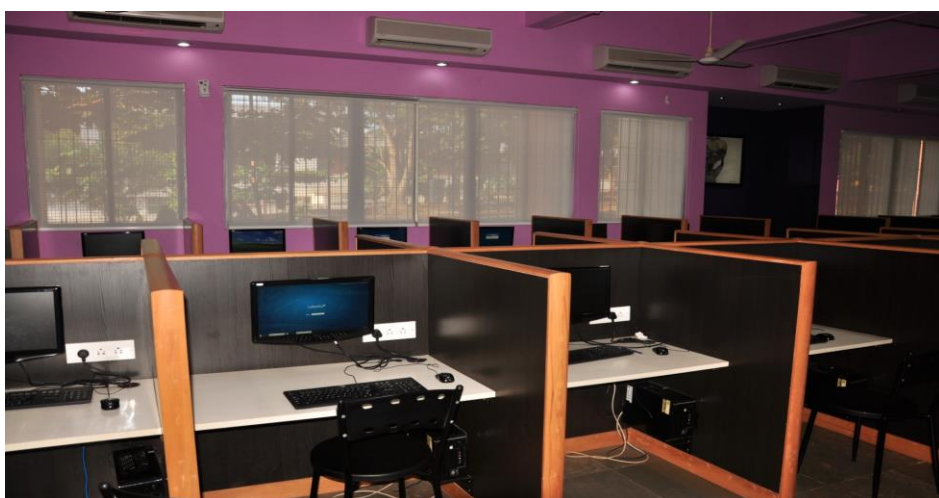
26. Increase in the infrastructural facilities

Keeping in mind the growing need of space the College has added following buildings to the campus during the academic year 2011-12:

- a) New Academic Block (G & H):** Construction of New Academic Block G & H was started during the year 2011-12.
- b) Photogrammetry Lab:** To create 3D informations using 2D photographs (Aerial) with software's like ArcGIS & Envi. CartoSAT (Satelite) images for Goa was purchased. The Lab is also used for mapping purpose; it has 10 PC's with up-to date configuration and I5 processors.
- c) Student Support Services (F Block):** New premises for the Student Support Services were constructed in the year 2011-12.



Inauguration of the Student Support Centre.



New Computer Lab

27. Technology Up gradation: The College has always been at the upfront of technological advancement. Various developments have been made to provide State of Art facilities to its students and employees.

- a) Installation of IBM Blade server base VM Ware
- b) Up gradation of Wi-Fi access points
- c) CCTV camera installation in the whole campus
- d) 20 KVA UPS
- e) Purchased a High-end Scanner 100 pages/minute
- f) 30 systems purchased for labs.
- g) 8 I pads purchased for students & staff of Student Support Services.

28. Computer and Internet Access & Training to teachers, Non-teaching staff and students:

Various initiatives were taken to provide technological training to the staff and students of the college. Various workshops for CLAAP training, Latex, SPSS, Interactive Boards, use of INFLIBNET etc were scheduled throughout the year.

29. Financial aid to students

The College provides financial aid to economically deprived students to pay their tuition fees or towards expenses incurred during field trips. This amount is paid out of the Principal's Contingency Fund. The amount spent in this regard was:

Principal's Contingency Fund : Rs 3,204/-

Students' Aid Fund : Rs 6,590/-

The total amount disbursed during the year was Rs.9, 794/-

30. Activities and support from the Alumni Association:

Many of the alumni help the College in conducting Honor's programmes and joint programmes like blood donation.

31. Activities and support from the Parent-Teacher Association: NA

32. Health services

The College has an understanding with a hospital located within half a kilometer from the College. Emergency cases are usually referred to this hospital.

First Aid kits are available in the College at various locations. The College also has a stretcher and wheel chair in case of emergency to mobilize the patient. Within the campus the College has a physiotherapy and rehabilitation centre.

The “Chowgule Human Genetic Research Lab.” (CHGRL) provides all pathological services on the campus (Blood tests such as total count, DC, liver profile tests, renal profile tests, Lipid profile tests, blood sugar etc) to all staff, students and the general public. The Disaster Management Cell of the College is well equipped for providing first aid.

33. Performance in sports activities: The College promotes sports by providing state of art facilities & also providing scholarship for the outstanding sportsperson. This has enhanced the performance of our students in sports.

Championships in Intercollegiate:

During this Academic year the College had two Championships titles

- i. Tiger Football Club (men's) College Team comprising of Clive Almeida, Anthony Fernandes, Clinton Pacheco, Malcolm Afonso, Melcolm Mecklin D'Silva, Bryan Coutinho, Stanlee Stephen, Kishen Borkar, Charlton Vaz, Johnson Quadros, Cleston Fernandes, Joel.F.Fernandes, Dryden Rodrigues, Ashwin Gomes, Gloston Reveredo, Valucio Rodrigues, Joel Lars Fernandes & Craig Lazaro won the Inter - Collegiate Football Tournament organised by Goa University.
- ii. Tiger Hockey Club (men's) College team comprising of Amit Kujur, George Lugun, Sameer Soreng, Amrit Topno, Valson Colaso, Santosh Kerketta, Ranjit Reang, Kamal Minz, Amit Desai, Manoj Topno, Ignecius Soreng, Jason Monteiro, Melcom D'silva, Malcolm Afonso, Joel.F.Fernandes & Aunchal Upadhyay won the Inter Collegiate Hockey Tournament organised by the Goa University.



Winners of Intercollegiate sports event.



Pegasus Intercollegiate English festival

- iii Tiger Table Tennis Club (women)'s College team comprising of Ashwini Kutre, Deepti Kolwalkar, Darshani Sawant Dessai & Nilima Rajpari were Runners up team at Inter Collegiate Tournament organized by Goa University.
- iv Tiger Athletic Club participated in Inter Collegiate athletic meet organized by Goa University. Subin Varghese of TYBA won Gold Medal, in High Jump (men) & Yasmin Khan of MA (Geography) final year student won a bronze medal in Javelin throw (women).
- v. Tiger Muscular Club's Vivekanand Tambi, PGDCA student, won a Gold medal, in Inter Collegiate Weight Lifting Championship. Stanley Stefan of FYBA, represented India at an International meet at Chennai organized by Japan Shotakan Karate Association and Goa State at two nationals organized All India Karate Do Federation.

Individual Achievements:

- Charlton Vaz of TYBA represented Goa University in inter university football tournament.
- Anet Mascarenhas of SY BSc. represented Goa University in inter university football Tournament.
- Aditya Ranjan of SYBA represented Goa University in inter university cricket tournament.
- Mahesh Rao of FYBSc. represented Goa State in nationals in cricket tournament.

Participation in sports at National Level:

- a) Amit Desai of TYBA represented Goa State in Baseball National & Goa University in Hockey & Baseball in inter university competition.
- b) Sharmad Mahajan of FYBA represented Goa State in Nationals & Goa University in inter university tournament in Badminton.
- c) Sukanya Chari of FYBA represented Goa State at National level Chess Competition.
- d) Chiara Sacha da Costa participated for All-India Women Basketball Championship at Bhopal
- e) Livia Fernandes participated for All-India Women Volleyball at Karnataka.

Participation in Sports at International Level:

Stanley Stefan of FYBA, represented India at an International meet at Chennai organized by Japan Shotakan Karate Association and Goa State at two nationals organized All India Karate Do Federation.

34. Incentives to outstanding sportspersons: The College has instituted special sports scholarship ranging from Rs. 500 to Rs. 10,000/- for meritorious sports persons. Under this scheme, an amount of Rs. 1, 57,000/- was disbursed to forty students, based on their performance. This year, one student received a scholarship of Rs 10,000/- , another student received a scholarship of Rs 7,500/- , twenty six students received scholarships of Rs. 5000, seven students received scholarships of Rs. 1000 and five students received scholarships of Rs. 500.

35. Student achievements and awards:

The College honors' the students for their outstanding performance in academics co-curricular and sports. Mr Eltin D'souza, Department of English won the Hira Wagh Award for the year 2011-12 for excellence performance in studies, sports and extra curricular activities.

36. Activities of the Guidance and Counseling unit

a. Business English Certificate Examination training (BEC):

The College conducts training for Business English Certificate (BEC) examinations. These certificates are awarded by the University of Cambridge under their English for Speakers of Other Languages (ESOL) examinations service and are available at three levels: Preliminary, Vantage and Higher. College conducts training programmes for individuals who desire to obtain this qualification.

b. Visiting Faculty:

- The Writing Centre hosted **Prof. Georgia Lyons**, Academic Skills Program Coordinator, Nipissing University, Canada, in June-July, 2011.
- In conjunction with the American Centre, Mumbai, the Writing Centre organized a one day ESL teaching workshop at our College. The resource person was **Prof. Joseph Dwailebe**.
- Certificate Course on Critical Thinking was conducted in February – March, 2012 by **Prof. Robert Witmer** from Sophia University, Japan.
- **Prof. Jonathan and Dr. Robert Ray**, from the department of Life sciences, Sussex University, UK delivered lectures on Molecular Biology from 12-20 December, 2011 for faculty and students of Botany, Zoology and Biotechnology of our College.



Prof. Robert Witmer with Writing Centre Staff.



Dr. Nandkumar Sawant with Professor Jonathan and Dr. Robert Ray.

c. Centre for Portuguese Language and cultural (CPLC):

Portuguese 'Basic Level' courses were conducted both for our students as well as for public. The first batch of the Portuguese 'Basic Level' course started in July, 2011 with 20 candidates (public).

An exhibition on 'Portuguese Travels and meeting of the Civilizations' was held from 5th-11th November, 2011. CPLC arranged a Talk on "Portuguese Emigration" by Dr. Claudia Fernandes, University of Vienna, Austria, followed by a movie-"Ganhar a Vida" CPLC also participated in Semana da Cultura and hosted Portuguese Film Festival from 5th to 9th November, 2011.

d. Statistical Analysis Support:

We provide statistical analysis support to students and teachers in their projects, assignments, articles and research works. This support was also provided for activities like students Grade Tracking System (GTS), vocabulary scale analysis and analysis of the data from various departments.

e. Grooming & Personality Development:

This course was conducted by Ms Charmine Shackleton Godinho in order to enable students to learn important life-skills, ranging from lifestyle management and personality development to etiquette.

f. Career and Personal Counselling: (CPCC)

- The Career & Personal Counselling Centre (CPCC) aims to help students develop their abilities & skills to make effective career choices & provides support to talk about personal, social and academic matters. The Centre now has full-time career & personal counsellors.
- From June 2011-January 2012, 95 students visited the Centre for aptitude testing & career guidance.
- The CPCC along with the Computer Science department organized a talk on '**New Frontiers in IT**' on 10th August, 2011 for Undergraduate & Postgraduate students. The resource person was Mr. Olavo D'Souza.



Signing MOU with Centre for Portuguese Language and Culture



Faculty Members at JALT Japan.

- On 24th September, 2011, the Career & Personal Counseling Centre along with the Psychology Department organized a workshop on **Effective Study skills & Career Guidance** for three Higher Secondary Schools in Margao and subsequently the same workshop on 20th December, 2011 for Guardian Angel H.S.S., Sanvordem.
- Personal Counsellor Ms. Akila S. Kalsur attended a workshop on **‘Behavioural Activation for Depression’** organized by Sangath on 4th & 5th of November, 2011.
- On 23rd January 2012, CPCC organized a “Study Skills” workshop for the students of the College to help students cope with academic issues.
- On 7th January 2012, the centre organized a career talk on **‘Careers in Communication & Media** by Ms. Meenakshi Sharma (Director of Resurge Consultancy) and ‘Translation as a Career in the Global Context’ by Dr. Claudia Fernandes, (University of Vienna).

37. Placement services provided to students

The College has links with several companies and placement agencies like Star Holdings, Ascent Services, Caculo Ford, ICICI, Industrial Bank, Alcon Victor Group, etc. for the placement of the students. Two students of PGDIS were selected for Traverse Technologies, Goa and two for Turbo Sketch Pvt. Ltd, Margao.

38. Development programmes for non-teaching staff

Given our commitment to continual up-gradation and improvement of our services, the Writing Centre conducts a monthly training event for its staff.

39. Linkages developed with National/ International, academic/research bodies:

The College has several international and national co-relations for academic and cultural exchange.

International linkages:

- University of Sussex, UK
- Waseda University, Tokyo (Faculty Exchange Program)
- Sophia University, Japan for teaching (Faculty Exchange Program)
- Tullinge Gymnasium, Sweden (Student Exchange Program)
- Sodra Latins Gymnasium Stockholm, Sweden (Student Exchange Program)

National Tie-ups:

- National Institute of Oceanography (NIO) Dona Paula - Goa for teaching and research.
- ‘SANGATH’ for research and Counseling assistance
- Turbosketch, Margao, for teaching and internship.
- Pharmaceutical industries for teaching.
- Indian Council of Agricultural Research (ICAR) Goa Ela.
- National Centre for Antarctica and Ocean Research, Vasco, Goa.
- GIS, NIO and Turbosketch, Margao for training, skill development and apprenticeship.
- TERI - Tata Energy Research Institute
- Apollo Hospital; Dr. Raikar’s Pathology Lab; ‘Labplus’ pathology lab, Margao, Goa and Piramal Diagnostics and Dr. Hema Purandarey’s Centre for Genetic Health Care, Mumbai.

40. Section C: Outcomes achieved by the end of the year

Since the IQAC looked objectively at the Quality of assignments done by the students, during the course of this academic year a series of workshops for students and faculty were conducted on “Assignment Writing” and “Plagiarism”. Subsequently a standard format was adopted for assignment writing and referencing. This has brought in significant changes in the quality of assignment writing. The IQAC also recommended adopting new methodologies in teaching and learning. As an experiment, “Problem solving method” was initiated by three of our departments.

Secondly, since the aim of the College is to provide professional edge to the students by incorporating courses like Honours Programme etc. the College is preparing for autonomy. The College submitted a proposal for acquiring autonomous status, to Goa University and the same recommendation was also made to the University Audit Committee, set up in 2011.

41. Other Achievements:

- **Staff Felicitation:** The second Founder's Day, was celebrated on the 25th August, 2011. Ms Nandita Das actor, social worker and activist was invited to address the gathering at Founder's Day. Teaching and Non-teaching staffs of our College were felicitated at the hands of Ms. Nandita Das. Dr. Nandkumar N. Sawant was awarded the 'Best Teacher' for his contribution towards research and publication, Dr. Gunaji Dessai was awarded 'Best Teacher' award for his contribution in extra curricular activities, Dr Devashish Bagchi was awarded 'Best Teacher' for public Relations and Mrs Greta Almeida and Mr. Mohandas Naik were awarded best non-teaching staff.
- **College/Government/Industry Collaboration:**

The college has signed an MoU with Tata Energy and Resources Institute (TERI), an Organization engaged in research in the fields of energy, environment and sustainable development to assist in a project entitled "Assessing the Impact of Mining activities on Water bodies in the state of Goa" Under this project the College has provided laboratory facilities and personnel to conduct analysis of suspended solids in Selaulim water. The duration of the project was October ,2011 to 31st July, 2012.

Section D

Action Plan for the next academic :-

- a. Initiate the process of autonomy.
- b. Adopt new teaching methodologies.
- c. Greater thrust on research and motivate teachers for undertaking research projects.
- d. Develop linkages with various institutes National and International for academic and Outreach Programmes.
- e. Standardise sport practices and formulate policies.

Annexure – I

Presentation of papers at Conferences, Seminars, etc.

International:

- **Dr. G.K. Naik** presented a paper on **Microwave - Assisted Synthesis of Nano-particle - Hexagonal Barium Ferrite**; Poster presentation at, the Third International Conference on Frontiers in Nanoscience and Technology (Cochin Nano-14-17th August 2011), organized by Department of Physics, Cochin University of Science and Technology, Cochin, India.
- **Dr. E.M. Travassos** participated in International “XIth Symposium on Vectors and Vector borne diseases” from 15th- 17th October, 2011, organised by Regional Medical Research centre for Tribal's, Nagpur Road, Garha Jabalpur and presented a poster “**Effects of methanolic leaf extract of Dysoxylum binectariferum Hook on larvae of vector mosquitoes, Anopheles stephensi Liston, Culex quinquefasciatus Say and Aedes aegypti L**”.
- **R. Kanchana**, presented a paper on ‘**Bio degradation of feather waste by potent keratinophilic fungi**’ at the International Symposium on Environmental Risk Assessment 2011 (ISERA 2011) , held at Bharathiar University, Coimbatore from 17 – 19th October, 2011.
- **Dr. E.M. Travassos** participated in VI Annual International Conference of the “Forum of Knowledge Sharing” on the theme “Agglomeration, technology clusters and networks” hosted by Goa University , on 18th November , 2011.
- **Dr. Sanjay Gaikwad**, presented a paper at the **3rd International Conference on Ecotoxicology & Environmental Sciences** from 28th to 30th November, 2011 at Panjim, organised by Institute of Ecooxicology & Environmetal Sciences, Kolkata, entitled **Comparative Study of Liquid Industrial Waste Water Treatment Processes**.
- **Dr. Sanjay Gaikwad** was also a co-author of the paper presented at the **3rd International Conference on Ecotoxicology & Environmental Sciences** from 28th to 30th November, 2011 at Panjim, organised by Institute of Ecooxicology & Environmetal Sciences, Kolkata, entitled **Effect of Zinc on the functioning of laboratory model waste stabilization pond**.

- **Mr. Sachin Savio Moraes**, presented a paper titled '**Negotiating Male Migration : The Experience of Women in Goa,**' at the International Conference 'GOA 1961 AND BEYOND', held at Goa University, 18-20th December, 2011.
- **Ms Shaila Ghanti** presented a paper entitled, "**FPGA based Network Interface card with DDOS attack defender**" Proceedings of the INTERFACE 2011 International Conference on "Network Infrastructure Management Systems" organised by VJTI Mumbai, (pp 15-18), 2011.
- **Dr. G.K. Naik** presented a paper entitled, "**Dielectric Properties Of Nanoparticles Ni_{0.65}Zn_{0.35}Fe₂O₄ Prepared By Precursor Method**" at the International Conference on "Nanotechnology and Functional Materials" jointly organized by Sreenidhi Institute of Science and Technology and University of South Africa, held at Yamnampet, Ghatkesar, Hyderabad-501301, during January 4th -7th 2012.
- **Dr. E.M. Travassos** participated in the International conference on "Current trends in medicinal plants organized by the Department of Botany, University of Pune, during 10th -12th January , 2012 and presented a poster "**Effects of leaf and callus extract of Dysoxylum binectariferum Hook on larvae of vector mosquitoes, Anopheles stephensi Liston**"
- **Dr. Sanjay Gaikwad** presented a paper titled "**Impact of Mango cultivation on Environment of Coastal Upland of Ratnagiri, Maharashtra**" at XIth International Conference on "Tourism Environment and Development" organized by the Department of Studies in Geography, University of Mysore, Karnataka from 22nd – 24th February ,2012
- **Dr. N.N. Sawant** presented a paper titled "**Male Emigration and its Impact on their Spouses – A Study of Chandor, Salcete, Goa**" along with M.A. Geography students, Miss Dishanta Malkarnekar and Miss Mallica Desai at XIth International Conference on "Tourism Environment and Development" organized by the Department of Studies in Geography, University of Mysore, Karnataka from 22nd – 24th February ,2012

National:

- **Mr Kailas Gokhale**, Statistician of SASS attended a National level Conference held at the Department of Statistics, Gulbarga University, and presented a paper titled

“Posterior Control Limits of X bar and S charts” on 8th and 9th September, 2011 at Gulbarga, Karnataka

- **Mr. Sachin Savio Moraes**, presented a paper titled **“Negotiating Male Migration : The Experience of Women in Goa”** at Goa 2011 National Seminar at Xavier’s Centre for Historical Research and Thomas Stephens Konkani Kendra on 29th and 30th September , 2011
- **Dr. N.N. Sawant** presented a paper titled **“Perception of Climate Change, Impact and Adaptations of Rural Economy in Upland Maharashtra”** at National Conference on “Mountain Environment and Natural Resource Management” held at Shimla, Himachal Pradesh on 8th and 9th October, 2011.
- **Dr. D. Mazumdar** participated in the one day “National Seminar on Indian Economy: A Journey since Independence and Future Prospects”, organized by the Department of Economics, Shree Mallikarjun College of Arts & Commerce, Canacona, Goa on 26th November, 2011 and presented a research paper entitled **“The Dilemma between Agriculture and Industry Growth Versus Inflation: An Overview”**.
- **Dr. D. Mazumdar** also participated in the National Conference organized by Department of Postgraduate Studies and Research in Economics, Tumkur University, on “Agricultural Marketing in India: Direction for Development” held on 1st December, 2011 and presented a paper entitled **“Sustainable Agriculture: Issues & Challenges A Case study in Goa”**.
- **Dr. Sanjay Gaikwad** presented paper titled **“Globalization, Climate Change and Vulnerability of Indian Agriculture: Determining Scope for Adaptation”** at the Two-days National Seminar on “Problems and Prospects of Agricultural Development in India” organized by Department of Geography, Rajarshi Chhatrapati Shahu College, Kolhapur, in collaboration with Arts, Science and Commerce College, Hupari, Maharashtra, on 14th and 15th December, 2011.
- **Dr. G.K. Naik** presented a paper on **“Synthesis of Nanoparticles NiO.55ZnO.45Fe₂O₄ by Novel Precursor Method Showing Enhanced Resistivity”** at 56th DAE solid State Physics Symposium held at SRM University, Kattankulathur – Chennai, during December 19th – 23rd, 2011.
- **Dr. N.N. Sawant** presented paper titled **“Assessment of Regional Disparity at Micro Level: A study of Talasari and Dahanu Tahsils of Rural Thane,**

Maharashtra” at National Conference on “Regional Disparities in India” at Kolhapur on 4th and 5th January, 2012.

- **Dr. G.K. Naik** participated in One day workshop on “**Phytochemical analysis of Therapeutically active constituents of Pharmaceutically important medicinal plants**” on 13th January, 2012 organized by the Department of Botany, University of Pune.
- **R. Kanchana**, paper titled “ **Feather waste degradation by keratinolytic bacteria presented at National seminar** ”Advances in Zoology and Life process” on 9th February,2012 – 11th February,2012 at Goa University.
- **Divya Bandekar** paper titled ‘**Isolation and study of plant growth promoting Rhizobacteria from mangrove soil**’ presented at National seminar”Advances in Zoology and Life process” on 9th February,2012 – 11th February,2012 at Goa University.

State:

- **Mrs. Rakhi Karapurkar** attended and presented a paper at a XVI Annual Cum Second Internal Conference of Gwalior Academy of Mathematical Science (GAMS) organized by Dempo Charities Trust’s S.S. Dempo College of Commerce & Economics from 22nd to 25th September, 2011.
- **Dr. N.N. Sawant** presented paper titled “**Goa: Appraisal of Demographics in Post-Liberation Era**” at State-level Seminar on “Goa’s Liberation and after: Achievements and Failures”, organized by CES College, Cuncolim on 21st January, 2012.
- **Dr. N.N. Sawant** presented paper titled “**Tourism and Socio-cultural Transformation: A Perspective Study of Beach Tourism, Salcete, Goa**” at State-level Conference on “Goa: Land and its People – Its Transformation in the Post-liberation Era” organized by Department of Geography and Sociology on 27th and 28th January ,2012
- **Anagha Dicholkar**, presented paper titled “**Tribal Society and Transformation: A Study of Baddem Hamlet - Cotigao** ” along with M.A. Geography students, Miss Dishanta Malkarnekar, Miss Mallica Desai and Miss Shital Dessai, at State-level Conference on “Goa: Land and its People – Its Transformation in the Post-liberation Era” organized by Department of Geography and Sociology on 27th and 28th January, 2012

- **Dr. Sanjay Gaikwad presented paper titled “Understanding Landscapes of Goa through Remote Sensing”** at the State level Conference on “Goa: Land and its People – Its Transformation in the Post-liberation Era” organized by Department of Geography and Sociology, Smt. Parvatibai Chowgule College, Margao, Goa on 27th and 28th January, 2012
- **Miss Sumata Shetkar, presented paper titled “Population, Development and Health in Goa”** at State-level Conference on “Goa: Land and its People – Its Transformation in the Post-liberation Era” organized by Department of Geography and Sociology on 27th and 28th January, 2012
- **Mr. Sachin Savio Moraes, presented a paper titled ‘Tourism and Socio-Cultural Transformation: A perspective study of Beach tourism, Salcete-Goa’** at a two day state level conference on the 27 and 28th January, 2012 on the theme, Goa: Land and Its people-Reviewing Transformation in Post Liberation Era. Organized by Department of Geography and Sociology of Chowgule College.

Workshops/Seminars Attended:

- **Prof. N.G.Rivonkar, Dr. Roopa Belurkar and Prof. Mrs. Manjita Porob** attended 2 days workshop on “**Nuclear Energy, Benefits and Safety Aspects**” on 9th & 10th September, 2011 at National Institute of Oceanography, Goa organized by Chemistry Department of Dhempe College of Arts & Science, Panaji-Goa.
- **Mrs. Sarita Naik Tari along with six students Azelia Luis , Melosha Fernandes , Velanni Mendes, Anisha Fernandes, Panchali Pawar and Sibia Carneiro** attended a National Seminar on ‘**Contemporary Goa: Issues and Prospects**’ organized by Department of History, Carmel College of Arts , Science and Commerce for Women, Nuvem on 19th September, 2011.
- **Prof. N.G.Rivonkar** also participated in one day state level seminar on “**Chemistry –Our Life Our Future**” organized by Department of Chemistry, St. Xavier’s College of Arts, Science & Commerce, Mapusa – Goa.
- **Dr.S.B.Kakodkar** attended one day seminar to celebrate “**International Year of Chemistry**” at Carmel College on 30th November, 2011.
- **Mrs. Sobita Kirtani** attended a one day state level seminar on the topic ‘**The Family in Post-Liberation Goa**’ organized by Rosary College of Commerce and Arts,

Navelim, Goa, in association with the Directorate of Art and Culture, Government of Goa, on 15th December, 2011.

- Attended two days National Workshop on “Western Ghats and Coastal Biodiversity: Status, Threat and Conservation Strategies”, organized by Western Ghats Task Force, Government Of Karnataka on 3rd and 4th February, 2012 at Karwar, **Mr. V.C. Kumaresh** attended a one day workshop on “GSM,GPRS and Mobile Networking” organized by St.Xaviers College, Mapusa on 7th January, 2012.
- **Prof. Mrs. Vrunda Khanolkar** attended one day seminar on “Emerging Trends in Organic Synthesis” at Goa University on 25th January, 2012.
- To celebrate International Year of Chemistry, the Department organized a talk by **Dr. Nitin Borkar**, Managing Director of Virgo (India) on Madame Curie. This was attended by all the faculty of the Department.
- The Department of Chemistry organized UG sponsored National Seminar on “Nanomaterials: Synthesis and Characterisation and Application” on 2nd & 3rd February, 2012. All the faculty members attended the seminar.
- **Shri Annad Masur** attended one-day workshop on “Madhava Competition” along with the students at G.U. on 2nd January, 2012.
- **Mrs. Sobita Kirtani** attended a two days workshop on ‘Adolescence Crises’ organized by Government College of Arts, Science and Commerce, Quepem – Goa and Children’s Rights in Goa, on 30th and 31st January, 2012.
- **Ms. Shweta T. Mayenkar** along with three students attended the state level seminar on “Health Services in Goa” organized by Damodar College on 2nd February, 2012.
- **Mrs. Kavita Borker** along with **Ms. Grebian Alemao** and student **Jolene Rene Fernandes** attended the National Level Seminar on ‘Counselling Strategies for Enhancement of Physical and Psychological Well being’ organized by the Department of Psychology and Sports of M.E.S. College of Arts and Commerce, Zuarinagar – Goa on 3rd and 4th February , 2012.
- **Mrs. Kavita Borker** conducted a one day workshop on “Personality Development” on 7th February, 2012 for students of Maria Bambina Higher Secondary School, Cuncolim – Goa.
- **Mrs. Sobita Kirtani** along with six students attended the two day state level seminar on ‘Stress and Coping Among Youth’ organized by the Department of Psychology,

Government College of arts, Science and Commerce, Khandola, Marcel- Goa on 17th and 18th February, 2012.

- **Dr. Veeresh** attended a National Workshop on “**Bioinformatics Techniques in Drug Designing**” organized by Centre for Molecular & Computational Biology & Depts. of Botany, Computer Science & Biotechnology at St. Joseph’s College, Bangalore on 19th & 20th January, 2012.
- **Mrs. Sarita s Naik Tari** attended a National Seminar on “**Science and Technology in History and Archaeology**”, organized by Archaeological Survey of India, Goa Circle in collaboration with ,Government College of Arts, Science and Commerce, Sanquelim ,Goa from 3rd to 5th February, 2012.
- **Dr. Nandini Vaz. F.** attended one day National Seminar on “**Biodynamic farming and Career options in Life sciences**”, organized by Dept. of zoology, Govt. College of Arts and Science Quepem-Goa on 4th February, 2012.

ANNEXURE II

Publications

- **Ingle S.R. and Shaikh Afroz (2011) “Comfort Indices : A Climatic Approach to Muslim Pilgrimage Centres of India”** published in Maharashtra Bhoogolshashtra Sanshodhan Patrika, Vol. XXVIII(2), July-Dec, 2011, Pgs 1-11
- **Suryawanshi R and Sawant NN (2011) Regional Disparities in Rural Thane District in Rural Thane District, Maharashtra: An Overview, Transaction Vol, 33, No 2 2011 pg 217 – 223, (ISSN 0970-9851) cited in SCOPUS**
- **Annie F.D’Souza E Gomes, Veeresh, A.V. & Rodrigues, B.F. (2011): EFFECT OF ALGAL BIOFERTILIZERS ON GROWTH & YIELD OF ORYZA SATIVA L. (VAR. JAYA) IN COASTAL REGION OF GOA,** International Journal of Pharmacology & Biological Sciences, Vol. 5 (2), 103 – 114.
- **Annie F.D’Souza E Gomes, Veeresh, A.V. & Rodrigues, B.F. (2011): DENSITY AND DIVERSITY OF BLUE GREEN ALGAE FROM THE RICE FIELDS OF GOA,** International Journal of Advanced Biological Research, Vol. 1 (1), 8 – 14.
- **A. V. Veeresh, Annie F. D’Souza E Gomes & B. F. Rodrigues (2012): Effect of local fertilizers on Indigenous species of BGA in rice fields of Goa, In: Proceedings of the National Conference on Biodiversity & Biotechnology for Sustainable Development, H. C. Lakshman & G. R. Hegde (Eds) Pub. by P. G. Dept. of Studies in Botany, Karnatak University, Dharwad, India, 258 – 273.**
- **R. Kanchana, Usha Devi Muraleedharan, Seshagiri Raghukumar. ‘Alkaline lipase activity from the marine protists, thraustochytrids’. World J Microbiol Biotechnol, 2011, 27 (9):2125-2131.**
- **R. Kanchana, Delcy Correia, Sangeeta Sarkar, Prachi Gawde and Aifa Rodrigues. ‘Production and partial characterization of cholesterol Oxidase from *Micrococcus* sp. isolated from Goa, India.’ Int J Appl Biol Pharmaceutical Techno, 2011, 2 (2):393-398.**