

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

YEAR REPORT 2010-11

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.

This educational institution, popularly known as Chowgule College was founded in 1962 at Aquem, Margao by late Shri. Vishwasrao Chowgule in fond memory of his mother, Parvatibai Chowgule. Initially, it was affiliated to the University of Bombay. Since 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 course in Information Technology and Geography. In subsequent years looking at the societal needs, Biotechnology and Psychology was 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 Honour's Programme from 2010-2011. The College today 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 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 six units or three units. The college has the distinction of being the only college to offer six papers Geography at the third year level in the State.

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

It has also 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 a Shopping Center.

There are persistent efforts to bring significant changes in the academic curriculum to reach new milestones.

Section A:

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

1. *To enhance use of ICT (Information Communication & Technology) in teaching-learning process.*
2. *To introduce new courses at various levels.*
3. *To increase support services for the benefit of the students.*
4. *To encourage and motivate faculty members to undertake research related activities.*
5. *To promote sports and curricular activities.*

Section B:

1.ACTIVITIES REFLECTING THE GOALS AND OBJECTIVES OF THE INSTITUTION

The College was adjudged “Best Affiliated College” by Goa University on the eve of its Silver Jubilee Celebration. The milestones achieved by the college with each passing year have been a result of dedicated and sincere efforts put into it by the Management, the Faculty and the Students. There has been constant perseverance to achieve greater heights and foster overall development.

During the year, the college undertook series of activities in an array of domains. To provide a professional edge, Honours program was initiated and ‘CLAAP’ (Chowgule Learn Anytime Any Place) was adopted by the faculty to enhance teaching-learning process. Faculty were also given global exposure and a few visiting faculty were invited. The faculty of our college is actively involved in teaching, learning and research. During the academic year, the faculty published ten research articles and two books. The faculty presented their research findings at various seminars/conferences/symposiums organized at national and international levels and several departments organized workshops and conferences in their respective subjects. To adopt best practices, a few departments undertook “Bench Marking”.

The performance of students in the examinations conducted by Goa University was excellent. The college achieved 93.10 per cent results in Third Year B.A. and 87.80 per cent in T.Y.B.sc. Examinations conducted by Goa University higher than the Goa Universities overall performance. Miss Snehal S. Borkar secured the first rank and Miss Teja Naik achieved third rank at the Third year B.A examination of Goa University in April/May 2010. The results of postgraduate courses were also excellent and we achieved 100 per cent results.

The Chowgule ‘Tigers’ were overall champions at ‘Blitz2011’ a mega sport event organized by Goa Engineering College on 17th to 19th February 2011. Along with these many of our students also represented College, university in various State, National and International level sports activities. Students have also won many prizes in various competitions and cultural events held around the State throughout the academic year.

2. New academic programmes initiated –

a) Honours Programme:

Honour's Programme was initiated by the College to enhance the professional edge of the students. Honours courses are enriched; they offer the same material in greater depth and with faster pace. Honours courses emphasize critical and independent thinking to produce creative applications. The student/teacher ratio is usually smaller in honours classes to encourage participation and class discussion. A student will get college accredited 'Honours Degree' on successful completion of six modules spread over the six semesters.

The College in its time table has slotted time 2 hrs per week for the programme. On completion of 20 credits (20 Hours) per semester, a module is completed.

The following Honour's Programme is 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 Geoinformatics from this academic year. This is a three month course, telecasted from Indian Institute of Remote Sensing, Dehra Dun.

3. Innovations in curricular design and transaction:

In order to provide further enrichment of knowledge in the particular subject and also to make the students more employable, a number of our departments formulated innovative honours programmes. The departments offering such courses include Botany, Biotechnology, Chemistry, Computer Science, Economics, Geography, Marathi, Psychology, Sociology and Zoology. The formulation of syllabus and curriculum was purely by the faculty of the college.

4. Inter-disciplinary programmes started: Honours Programme is purely inter-disciplinary in nature. Any student of any class and stream can opt for this programme.

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 the smooth functioning of the examination without burdening a certain section of teachers. Secondly, all the teachers submit typed question paper; this 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.
- Display boards of the schedule of the examination and marks allocations for each of the examination are put at various locations on the campus with the objective of encouraging students to appear examination as per the schedule. Further, at the time of admission, a students 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)

- Lastly, to have zero error result, the examination committee scrutinise individual entry of each paper before the final feeding of the result.

The college has always focused on improvising its functioning to make it more effective.

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

7. Initiative towards Faculty Development Programme:

This Program is an ongoing process and college aspires to enhance qualities of teacher in teaching learning and research. Members of college faculty regularly attend orientation programmes, refresher courses and training programmes to update themselves on recent developments in their respective subjects. For the staff, the following faculty development were conducted.

Faculty Development Programme	No. of Beneficiaries
Critical Thinking	76
Institutional SWOT Analysis	25
Bloom's Taxonomy Workshops	75
Mentoring Techniques	120
SPSS package	35
LATEX, Mathematical Package	25
Plagiarism	40
Academic Writing	30

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

- Dr. R.V. Gaonkar, Principal of the College was fellow at the Sussex University, UK from October 2010- March 2011. During the visit he studied various academic and non-academic programmes of the University. The same could be translated to the College.

- (b) Dr. A.V. Veeresh attended “Training on Blue Green Algae: Application in Agriculture & Industry” at the Center for Conservation & Utilization of Blue Green Algae, Indian Agricultural Research Institute, New Delhi from 12th May to 18th May, 2010 during summer vacations.
- (c) Ms Amisha Shirodkar, Mrs. Manjita R. Porob, Dr. (Mrs.) Mangala Veeresh, Shri Allan Rodrigues and shri Yatin Desai attended the refresher course in Environmental Science organized by The Academic Staff College, Goa University from 4th to 24th of January, 2011. The Theme of the course was ‘Impact of global Warming and Climate Change’.
- (d) Mrs. Kavita Borker attended a refresher course at JNV University, in Jodhpur from 15th November to 5th December, 2010. She also attended a refresher course at Pune University from 10th to 31st January 2011.
- (e) Mrs. Rajeshree Dessai attended a course on ‘Short Story Fiction Writing’ in Jan-Feb, 2011 conducted by Prof. Robert Whitmer, Professor, Sophia University.
- (f) 24th January, 2011 One day workshop for college teachers of Goa in the subject of Computer networks conducted by Ms. Shaila Ghanti of the Computer Science Department.

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

- (a) **Seminars/conferences:** The Various departments of the College organised four National Seminars and one State Level Seminar. During the academic year four workshops were also conducted.

National:

- a) The department of zoology organized a two day UGC sponsored National Seminar on “Current and Emerging Trends in Animal Sciences – an Overview” on the 26th and 27th of November, 2010.
- b) The department of Konkani organized a two – day National Seminar on the topic “Writer Ani Fighter: Ravindra Kelekar on 11th and 12th February 2011.
- c) The department of Marathi organised a two-day National Seminar on 25th & 26th February 2011. The theme of the seminar was “Shri Gajaan Raikar Yanche Sahitya”.
- d) The Department of Hindi a seminar at the National Level on 14th and 15th of March 2011 on “21 vee Sade ke Pahale Dashak Ka Katha Sahitya”.

State:

a) The department of Chemistry organized a one day state level seminar on “Emerging Trends in Organic Chemistry” on 11th December, 2010.

(b) Workshops:

a) The department of Marathi also organized a Two-day workshop in Marathi on “Sutrasanchalanatil Tantra Ani Mantra” on 21st & 22nd March 2011.

b)The Department of Geography organized a workshop on “Preparing for NET/SET Examination in Geography” from 20th May 2010 to 31st May 2010.

c)The Department of Geography organized a workshop on “Resume Writing” in association with Writing Centre on 3rd August 2010.

d)The Department of Geography organized a workshop on “Scientific Reporting and Assignment Writing” 13th December 2010 in association with Writing Centre.

All these workshops were for the benefit of the students.

9. Research projects:

Teachers at this institution have put in continuous efforts in writing and submitting research proposals to various funding agencies. This year, the College received One major project and Six Minor Research projects.

1. Dr Ganpat Naik (Co –investigator) Optimisation of Nitrate triacitite Precursor Method for Obtaining Nano Praticles Mn Xu Ferite Material and Development of High Performance Micro Strucutre based Meta Material for Electromagnetic Applications. Sanctioned Amount: 2.5 Crores. A joint project with Goa University.
2. Dr Sanjay Gaikwad received a grant for “Development of GPS Collar for Wildlife Study”. He was awarded a grant of Rs. 7.83 Lakhs from the Management.

Minor Research Projects

1. Dr.Uma Masur “ Efficacy of extracts of Dysoxylum Malabaricum leaves against malaria vector Anopheles Stephansi in Botany.Amount sanctioned-Rs. 100000.00,
2. Angha Dicholkar “ Velips in Goa ,their society,problems and Prospects”.Amount sanctioned Rs.115000.00.

3. Dr.Roopla Belurkar “Synthesis,characterization,Biological activity of some metal complexes” in chemistry.Amount sanctioned Rs. 75000.00,Amount received Rs. 42500.00.
4. Dr.Nandini Fernandes”Paternal alcohol consumption: its effects on the f offspring,Genetic and pathological evolution of sperms.Amount sanctioned Rs.100000.00,Amount received Rs. 75000.00.
5. Dr Sangeeta Sanhalkar “Characterisation of Moringa Oleifra for Antioxidant Molecules in Vegetative of Reproductive Tissue” Amount sanctioned Rs.1, 50,000.
6. Mrs Rupali Tamuly “Changing Population Structure: A Case Study in Goa’s Education and Employment Scenario” Amount sanctioned Rs.1, 50,000.

10. Patents generated, if any- NIL

11. New collaborative research programmes: Dr. Ganpat Naik who collaborated with Dept of Chemistry, Goa University for his major research project and Dr. Nandkumar Sawant was approved Ph.D guide for SNDT Women’s University.

12. TOTAL RESEARCH GRANTS RECEIVED FROM VARIOUS AGENCIES:

1.	Dr. Sangeeta Sakhalkar	Rs. 1,05,000/-
2.	Mrs. Rupali Tamuly	Rs. 15,000/-
3.	Dr. Sanjay Gaikwad	Rs. 7,83,000/-
4.	Dr Uma Masur	Rs. 1,00,000/-
5.	Anagha Dicholkar	Rs. 1, 15,000/-
6.	Roopa Belurkar	Rs. 75,000/-
7.	Dr. Nandini Vaz Fernandes	Rs. 1,00,000/-
	TOTAL:	12,93,000/-

13. Details of research scholars:

Miss Anne F D’souza has done her Ph.D research under the guidance of Dr. A. Veeresh, Dept of Botany. The topic of her research was the blue green algae of various habitats in Goa.

14. Citation Index of faculty members and Impact Factor

Ten research papers were published and 2 books were published by the faculty members during the academic year (Appendix I). The books used as reference (Annexure II)

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

During 2010-11, three staff members were awarded by the college. Dr Animesh Adhikari for Best in research, Shri Hanumant Chopdekar for Best Teacher for Co –Curricular Activities and Shri Shrikrishan Adusl for Extension and Publicity of the College.

Shri H. C. Chopdekar has also received Literary Award of Rs. 10,000/- from Goa Konkani Academy for his One-Act play collection, 'KUNVADI', in September 2010 and similarly, Shri S S Adusl won the 'Yeshwant Adarsh Samikshak Puraskar' instituted by Prabhat Prakashan Uguem (Pernem) on 16th February 2011. Shri SS Adusl was also given citation and Rs 50,000 for his social work by Phandurpur Ekata Samiti in Feb, 2011.

Ph.d. Awarded:

S no:	Name	Department	Title of Thesis	University
1.	Dr. Priyadarshini Pujari	Zoology	"Effect of dietary lipid on D-Galactosamine induced hepatitis in Swiss albino mice, Mus musculus".	Goa University

16. Internal resources generated:

a) The College runs various self financed courses at Under Graduate and Post Graduate level like Biotechnology, MA Geography, Msc It, PGDGIS (Post Graduation Diploma In Geoinformatics). The total income incurred from these courses was Rs. 50, 58,000/-

b) The income received from other sources is as follows:

Student Service Charges	Rs. 27, 88,000/-
BEC (Business English Certificate)	Rs. 15000/-
Portuguese Course	1,59,000/-

Total	29,62,000/-
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Thus the total income received from a) & b) is Rs. 80, 20,000/-

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

18. Community services:

The college undertook various community outreach programmes..

- The N.S.S. unit of Chowgule College in association with Rotary Club, Margao organized a Blood Donation Camp. About 60 voluntary donors including staff and students participated.
- On 26th January, 2011, Activity of cleaning up Colva and Betalbatim villages under Mission **Chaka-Chak** was undertaken by the Volunteers and subsequently, Anti plastic Drive. Collection of plastic items like plastic bottles, milk packets and tetra packs was also undertaken.
- Besides these regular annual outreach programmes, other programmes conducted during last few years include tree plantation drives at the iron ore mine dumps at Pale, Goa in association with M/s Chowgule & Co.
- Under the aegis of the Goa Cancer Society, the College organized a programme for creating Awareness on Anti-spitting and Tobacco Chewing Act. The College conducted an Eye Camp for the benefit of the neighbourhood community where free eye check-up was performed by the doctors who were the alumni of this College.

Part I

The NSS Wing of the College participated in various community service programs.

- N.S.S Unit of Chowgule College in association with Rotary Club, Margao organized a Blood Donation Camp on 4th September 2010. About 60 voluntary donors including staff and students participated, in the presence of Dr. Vasumati Dessai.
- AIDS Awareness Rally organised in association with Margao Front on the Occasion of World AIDS Awareness Day on 1st December 2010.
- Activity of Cleaning up Colva and Betalbatim villages under Mission Chak-a-chak on 26th January 2011.
- Anti Plastic Drive & collection of plastic items like plastic bottles, milk packets and tetra packets was organised by NSS Wing of our college on 24th – 28th February 2011

Part II

- 9th August, 2010, Dept of Geography observed Hiroshima Nagasaki Day a commemoration of 65th Anniversary of Hiroshima Nagasaki Atomic Bombings. The focus is to make aware the consequences of nuclear warfare.
- 28th September, 2010, A health Awareness program – ‘Health is Wealth’ was organised by the Department of Psychology. Shri Deepak Salgaonkar was the Guest Speaker spoke on various health issues and the role of yoga.
- 19th February, 2011, A State Level Discussion Forum on ‘Sexual Assault – Know it to fight It’ was organised by the Department of Psychology.

19. Teachers and officers newly recruited:

Teaching : 43 (contractual and lecture basis)

Non-Teaching: 04

20. Teaching – Non-teaching staff ratio: 85:44 thus ratio comes to 2:1

21. Improvements in the library services:

The Library continued to be the hub of all research and academic activities of College and played significant role in facilitating creation and dissemination of knowledge during the year. It offered a range of services including reference and consultation, membership and circulation, document delivery, resources sharing; information alert services user awareness programmes and ICT-enabled web-based services. Other services provided by the library are Digital Library, OPAC (On-Line Public Access Catalogue), E-resources, E-books etc.

In Attempt to widen our sphere of activity, the library provides various services to general public. The Library was open to the public wherein any citizen could avail the facility of borrowing books.

- Using the rare reference collection
- Searching the OPAC (Online Public Access Catalogue)
- Members can Borrow Two Books at a Time.

Collection Development and Management:

Collection building 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 comprising of books, journals,

theses, reports. Films and other reading material in science, humanities, social science and language is considered as one of the best in the state and it is greatest asset. The total collection of the library as on March 2011 stands as follows:

Collection	Total
Books	65,000
Bound Volumes of Journals	3,215
Projects	767
VCD's	345
Subscription to Journals	70

22. New books/journals subscribed and their value

Books

Sr. No.	Source	Amount Spent (Rs)
1	Out of fee collection	2,53,589.00
2	Self-finance	85,923.00
3	ICSSR	2443.00
	Total	Rs 3, 41,955.00

Journals

Sr. No.	Source	Amount Spent (Rs)
1	College Budget	89108.00
2	Self-finance	36914.00
	Total	Rs 1,26,022.00

23. 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.

24. Feedback from stakeholders:

During the academic year 2010-11, an additional method was used to obtain the feedback from the employer was by way of personal discussions between the employers and respective faculty at the “Faculty - Employer’s meet” on the campus.

The curricular for Honour’s Programme, certificate courses and diploma courses were designed after consulting specialist in the subject / industrialists / Potential employers / Institutes etc. Most of the guest lecturers / visiting faculty for the 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. During the last two years, Benchmarking trips were organised to Lady Shri Ram College - Delhi , Wilson and St. Xavier Colleges – Mumbai, St Aloysius college, Mangalore and International Girls College, Jaipur.

Additionally, feedback from students and academic peers is obtained regularly both through informal discussion as well as from the formal feedback sheets in which students’ responses on teacher and course evaluation are recorded. Informal feedback from parents and the community generally comes through the Staff Advisory Programme. This feedback forms the basis for initiating changes in the curriculum. At the PG level feedback is also received from guest faculty coming from industry and from frequent interactions with experts from industries like Andrews, Wipro, TCS, D- Link, IBM and GCCCI.

25. Unit cost of education:

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

- a) Including the salary component – Rs.1, 51,892/- for aided courses and Rs.1, 34,102/- for self financed courses.
- b) Excluding the salary component – Rs.4, 738/- for aided courses and Rs. 1, 03,971/- for self financed courses.

26. 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. During this academic year the college developed new computerized website by Global Net Solutions.

27. Increase in the infrastructural facilities:

- a) **New Computer Lab:** Lab III with a discussion room was set up with Thin Clients, projectors & a smart board was set up for the use of staff and students.
- b) **New Academic Block (A & B):** Construction of New Academic Block A & B was started during the year 2010-11.
- c) **Biotechnology Lab:** Upgradation of the Biotechnology lab was done during the academic year 2010-11.
- d) **Futsal:** The Futsal ground for indoor football utilisation was constructed under the physical education department in the year 2010-11

The decision about the infrastructure is based on the College vision and the strategic plan. These determine the infrastructure required in the immediate and the medium term. Accordingly decisions are taken by the management about augmenting the infrastructure. Such decisions have led to the additions of infrastructures in the past. During the academic year 2010-11, the following infrastructure was added

- a) **Computer Lab:** New Computer Lab was set up to facilitate the internet usage for the staff & students.
- b) **Student's Activity Centre(Futsal):** Indoor football activity was initiated by the sports department by constructing the futsal. It is also known as Tiger's Ghol.
- c) **Bus Service:** Bus service was started for the students and the staff members of the college.

- d) Interactive Boards: To make the classroom learning more efficient and advanced interactive boards were set up. These are smart boards which facilitate technological teaching & learning
- e) Studio equipments: Tiger Studio of the college has several high end video and other devices. The MAC pro along with studio lights was purchased for the editing, graphic designing and audio-video recording requirements of the college.

28. 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 student's and employees.

1. New Thin Clint Lab was set up with ATOM 1 gkh processor with. 1 gb RAM 50 THIN CLIENTS, Intel core2 duo processor with 2 gb RAM 7 PC's.
2. Purchased new firewall for backup cyberroam 500ia
3. 8 Laptops For administration purpose.
4. 20KVA ups UPS - 2 nos purchased.
5. 1 TATA line (2MB) for internet usage.
6. 10MB internet line was purchased.
7. Interactive boards were purchased for classrooms.

29. 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.

30. 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/-

The Rotary Club gave a donation of Rs. 50,000 to the college.

31. Activities and support from the Alumni Association:

Rotary club provided 50,000 for the college. This was an initiative undertaken by the Alumni of the College.

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

33. 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 College has a physiotherapy and rehabilitation centre. The "Chowgule's 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.

34. Performance in sports activities: The College promotes sport by providing state of art facilities & also providing scholarship for the outstanding sportsperson. This has enhanced the performance of our students in sports. During this Academic year the College has two Championships titles

a) Championships in Intercollegiate:

- College Tennis Team (Men) won the Intercollegiate Tennis tournament held by Goa University.
- Chowgule Tigers finished "Champions" at 'Blitz-2011' an Intercollegiate Sports Festival.

b) Participation in sports at National Level:

- Siraz Shaikh won Bronze medal at National Karate Championship held by Japan Karate Association of India at Campal, Panaji and Gold at state level events held by All Goa Karate Do Association, Panaji.
- Kimberly Afonso, Yasmin Khan, Olencio Simoes and Gremiro Azavedo representation Goa at the National Handball Championship.
- Livia Fernandes, Stacey Mascarenhas and Deepa Deykar represented Goa University at Inter varsity Volleyball tournament at LNUPE Gwalior, MP.
- Durgesh Prabhugaonkar represented Goa University in baseball and cricket.

- Flody D'Souza represented Goa University in football both at south zone and All India inter varsity championship.

c) Participation in Sports at International Level:

India's Chess prodigy Bhakti Kulkarni (FYBA) participated at various international events in academic year 2010-2011 as follows:

- Asian Junior (under 20) – 4th Place – (Sri Lanka), June 2010
- Asian Youth – Gold Medal in under 18 girls (Beijing, China), July 2010
- World Junior – 20, 5th place – Poland, August 2010
- World Youth – Under 18.5th place – Greece, October 2010
- Naval Moral International Open – defeated Uzbek's grand master Ibrahim Khamrakulov – December 2010
- Prague International Open – Gained 20 Rating ELO points, Czech Republic, January 2010
- Marienbad Lazae – Round Robin – Silver Medal & won 1st Woman's Grandmaster Norm – Czech Republic.
- Caissa International Round Robin – Gold Medal & won 2nd Women's Grandmaster norm – Hungary
- National Team Championship – represented Air India - Individual board prize and part of team winning Gold. She earned 90 ELO rating points in the year & her current rating is 2339. She is rapidly inching towards her Grand Master title.

35. 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, 54000/- was disbursed to 42 students, based on their performance. This year 1 student received a scholarship of 10,000, 1 students received a scholarship of 7500, 25 students received scholarships of Rs. 5000, 8 students received scholarships of Rs. 1000 and 7 students received scholarships of Rs. 500.*

36. Student achievements and awards:

The College honors' the students for their outstanding performance in academics co-curricular and sports.

- a) Abreu Aliya Marie and Purshotam Verenkar won the Hira Wagh Award for the year 2010-11 for their excellent performance in studies, sports and extra curricular activities.

37. Activities of the Guidance and Counseling unit

a. Writing Centre:

The Writing Centre of our college aims at helping the students in developing skills with respect to various aspects of writing.

- This year, the Writing Centre celebrated its own ‘Writing Centre Day’ of November, 2010, where an eclectic mixture of semi-academic and light hearted events drew the enthusiasm participation of students across the board.
- The Writing Centre organizes an annual essay writing competition. This year, the topic was ‘Indian Social and Cultural Values are Changing’.
- On 3rd August, 2012, The “Resume Writing” workshop was organized in association with Geography department..

b. Business English Certificate Examination training (BEC):

The college conducts training for Business English Certification (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.

c. Visiting Faculty:

The college invited Dr. Saori Sadoshima, Director of the Writing Centre of Waseda University, Tokyo, Japan, as a visiting faculty at our Writing Centre in August-September 2010. She also conducted workshops for faculty and students on Academic Writing and Plagiarism.

Our college also hosted Professor Robert Witmer from Sohia University, Japan, who spent his academic sabbatical with us from November, 2010 to March 2010. Prof. Witmer conducted staff training session at the Writing Centre and also taught a course on Short Fiction Writing for faculty, students and members of the public.

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

The centre for Portuguese language and culture conducted a wide variety of activities ranging from language courses to cultural events. In this academic year, two batches of Portuguese ‘Basic Level’ courses were held. Thirteen candidates completed the course in batch I and twenty three individuals are currently on batch II. The CPLC has hosted various exhibitions of works of art by Portuguese artistes. In October 2010, an exhibition entitled ‘Letras e cores, ideas e Autores da Repulica’ was followed by a conference: ‘A Glance at the Portuguese Art during the Republican Period’ by Patricia Geraldés. The first ever ‘Portuguese Day’ was celebrated by the CPLC on the 10th of February 2011.

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. Number of students took the benefit of this course.

f. Disha Counselling Cell:-

Disha counseling cell provides counseling services to the services to the students and conducts workshops and sessions on parenting, study skills and career guidance. This academic year, the activities of Disha Counselling Cell included:

1. Disha Counselling Cell continues to handle individual cases related to effective studies, career choices, marital problems, relationship problems, obsessive compulsive reactions etc.
2. Mrs. Kavita Borker addressed parents at Sarvodaya Educational Society's High School, Curchorem and Carmel Higher Secondary School, Nuvem
3. A talk on "Careers in the new economy" was given by Amir Ullah Khan on 10th December, 2010
4. Mrs. Kavita Borkar addressed the 10th std students at Quepem, Balli School on Career Guidance.
5. The Disha Counselling Cell of the Department of psychology along with the Counselling Career and Vocational Guidance Centre organized a workshop on "Effective Study Skills and Career Guidance" on 8th January 2011 for Higher secondary students of Multipurpose Higher Secondary School-Borda, St. Alex Higher Secondary school-Curtorim, Jawaharlal Nehru Higher Secondary School-Fatorda and Fr. Basilio Andrade Higher Secondary School, Majorda.

38. Placement services provided to students

The College Placement Cell conducted an All Goa Placement Drive for Tata Consultancy Services, Mumbai named "IGNITE" on July 2010.

Mr. Rajaram Hodavadekar was selected as a Project Scientist by Science Centre, Goa. A Campus Placement was conducted by VEDANTA (SESA GOA) on 26th April 2011. Five students of T.Y.B.Sc (Chemistry) were selected by the Company.

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.

Dr. Sachin Kakodkar.

Two students of PGDIS were selected for Traverse Technologies, Goa and Two for Turbo Sketch Pvt. Ltd, Margao.

39. Development programmes for non-teaching staff

The Writing Centre conducts a monthly training event for its staff. There are specialized trainings too. During the vacations, The Office of Information Technology provided training in MS Office to the non-teaching faculty.

40. Good practices of the institution

- On-line admissions
- Use of ICT in college
- Earn while you learn
- Bench marking
- Department News letter
- Writing centre
- Sports School
- Honours programme
- OIT (Office of Information Technology)

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

The College has several linkages with international and national linkages 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 for exchange programme. (Student Exchange Program)
- Sodra Latins Gymnasium Stockholm, Sweden for exchange programme. (Student Exchange Program)

National:

- 'NIO', Donapaula. 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).
- NCAOR, Vasco.

- GIS- NIO and Turbosketch, Margao for training, skill development and Apprenticeship.
- Apollo Hospital, Margao, Hospicio, Margao, Dr. Raikar's Pathology Lab, Margao, 'Labplus' pathology lab Margao and Piramal Diagnostics and Dr. Hema Purandarey's Centre for Genetic Health Care, Mumbai.

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

The process for internal quality checks has been put in place by the College through the establishment of the Internal Quality Assurance Cell. The IQAC plays a key role in the quality assurance efforts within the existing academic and administrative system. The IQAC receives inputs from every department – both academic and administrative – about their perspective plans which spell among other things, measures that would be taken for quality assurance and up-gradation.

The academic departments prepare their perspective plans and set annual targets on the basis of inputs coming as feedback from course registers, self-appraisal reports, course evaluation by students, Staff Advisory Programme, research and other activities of the faculty, as well as general evaluation of the curriculum.

The inputs coming from the academic departments, the Staff Advisory Programme and the review of its own past performance are used to prepare the action plan by the non-academic departments.

On the basis of these departmental inputs, the College Planning Committee prepares the institution's perspective plan. The Annual College Calendar then spells out time bound targets which are set on the basis of its perspective plan. This College Calendar acts as one of the tools that are used for monitoring actual performance at the institutional level. Rectification measures are deployed in case there is a variance in actual performance. Reviews of the performance at the departmental levels as well as institutional level are done through periodic meetings. Departments meet regularly to review the academic as well as administrative performance and to adopt rectification measures in case the performance falls below the targets. The Principal holds monthly meetings with faculty, more frequent meetings with the heads of the departments and daily meetings with the administrative sub-heads in order to ensure smooth implementation of the College plan/calendar. These mechanisms at the Department and the College levels ensure the sustenance and enhancement of quality.

Besides the College Calendar that helps in setting the targets for the institutional efforts, there are other programmes and support facilities that provide for internal quality checks.

43. Other Achievements:

a) Staff Felicitations: Our first Founders' Day was celebrated on the 25th of August 2010. Mr. Chetan Bhagat, renowned author, youth icon and one of the 100 most influential people in the world was invited to address the gathering at Founders' Day. Teaching and non-teaching staff of our college were felicitated at the hands of Mr. Chetan Bhagat. Dr. Animesh Adhikari was awarded the Best Teacher award for his contributions towards research, publishing research papers and books. Mr. H. C. Chopdekar was awarded Best Teacher Award for his outstanding contribution in extracurricular activities. Mr. Shrikrishna Adsul was awarded Best Teacher Award. Mr. Sandesh K. Nagvenkar was awarded best non-teaching staff.

b) Visiting Faculty International: The College invited Dr. Saori Sadoshima, Director of the Writing Centre of Waseda University, Tokyo, Japan, as visiting faculty at our Writing Centre in August-September 2010. She also conducted workshops for faculty and students on Academic Writing and Plagiarism.

c) The college also hosted Professor Robert Witmer from Sophia University, Japan, who spent his academic sabbatical with us from November, 2010 to March, 2011. Prof. Witmer conducted staff training sessions at the Writing Centre and also taught a course on Short Fiction Writing for faculty, students and members of the public.

d) The College had an exchange programme with Tullinge Gymnasium, Stockholm, Sweden called Athena Programme of the Swedish government. Under this exchange programme, students and teachers/staff from each institution spent time with its counterpart during the academic year 2010-11.

e) Shri H. C. Chopdekar, Assistant Professor, department of Konkani has received Literary Award of Rs. 10,000/- from Goa Konkani Academy for his One-Act play collection, 'Kunvadi', in September 2010.

d) The College created history in Goa's cultural field by emerging as Champions at the 16th Goa Yuva Mahotsav, the greatest cultural event in the State of Goa. A total of 35 of our students participated in this two day Youth Festival held at M.I.B.K. High School ground, Khandepar, Ponda, Goa on 15th & 16th of January 2011.

SECTION C: Outcomes achieved by the end of the year

The College has been able to upscale development due to its persistent efforts. The major outcomes can be briefly listed as follows:

- a) March towards Global Exposure: During the academic year the College, had two visiting faculties from Waseda University, Tokyo & Sophia University, Japan.

Dr. Saori Sadoshima, Director of Writing Centre, Waseda University, Tokyo, Japan, as visiting faculty at our writing centre in August-September 2010. She conducted workshops for faculty and students on Academic Writing and Plagiarism.

Professor Robert Whitmer from Sophia University, Japan taught a course on Short Fiction Writing for faculty, students and members of the public.

The Principal Dr. R.V.Gaonkar was fellow at Sussex University, UK where he studied various academic & non academic programs of the University.

Students Exchange Program with Educational Institutes in Sweden. In the second phase of students exchange program Tullinge Gymnasium and Athena Gymnasium from Stockholm, Sweden visited the College and similarly our faculty and students visited Sweden in May 2011.

- b) Professional Edge to the Students: The College initiated Honours Program to enhance professional skills amongst the students to provide professional edge in the job market. As many as 14 departments initiated this program.

- c) Acknowledgement of Faculty for Contribution and Services: The Management with the purpose of acknowledging the contributions by the employees of Chowgule College initiated awards on the eve of the Founders Day (25th Aug) 5 awards were given following categories.

The following awards will be given on Founder's Day.

- a. Award for Excellence in Research & Consultancy
- b. Award for Excellence in Student Related Activities
- c. Award for Public Relations
- d. Award for Best General Administration and Accounts
- e. Award for Best Support Staff.

Section D: Plans of the GEI for next year:

- a) International exposure through faculty- Student exchange programme with international institutes.

- b) To provide professional edge to the students by offering academic programmes viz. Honours programme and various certificate courses.
- c) Empowering students with various skills like initiating departmental newsletters, organization of events, workshops etc.
- d) Encouraging faculty and students to undertake a well defined - objective based studies through assignment writing, field trips and visits, ensuring learning beyond class room and correlate theory with practical studies.
- e) To make the students responsible global citizens by making them environmentally responsible, provide a very strong exposure to ICT; help them in self-development and to become upright citizens

Annexure – I

Presentation of papers at Conferences, Seminars, etc.

International:

1. Dr. Nandkumar Sawant presented a paper on “Goa: Women, Globalization Emigration” at the 2nd Congress of the Asian Association of Women’s studies (CAAWS 2010) “Debating Gender Justice in Asia from 9th to 11th December 2010 at Penang, Malaysia.

Within India:

1. Dr. G. K. Naik presented a paper on “Characterization and Mossbauer Study of Nanoparticles. Ni_{0.45}Zn_{0.55} Fe₂O₄ prepared by Novel Precursor Method” at the 55th DAE- solid state Physics Symposium, organised by Department of physics, Manipal University, Karnataka, sponsored by BRNS-DAE, Government of India. Mumbai, during December 26th – 30th, 2010.
2. Dr. G.K. Naik presented a paper on “ Synthesis and Magnetic Properties of Nanoparticle Ni (1-x) Zn_xFe₂O₄ Ferrite prepared by precursor method”, at international workshop and symposium on the synthesis and characterization of Glass/Glass-Ceramics (IWSSCGGC-2010), organised by centre of Materials for Electronic technology, Pune and Materials Research Society of India, at Pune during July, 7th to 10th 2010. He also presented another paper on “Synthesis and Characterization of Microwave assisted copper substitute Ni-Zn Ferrite” at the same conference.
3. Dr. G. K. Naik contributed a paper on “Mossbauer Study of Nickel Zinc Ferrite: at the 3rd International Symposium as materials Chemistry. Organized by Society for Materials Chemistry Mumbai and Chemistry Division of Bhabha Atomic Research Centre, Trombay, Mumbai Sponsored by Board of Research in Nuclear Sciences, Department of Atomic Energy, Government of India, Mumbai, held during 7th to 11th December, 2010, at BARC, Trombay Mumbai.
4. Dr.Sangeeta Sankhalkar attended National Conference organized by society for plant physiology, India at BHU, Varanasi, from 24th to 27th November, 2010 and presented a paper entitled “Antioxidant nature of ascorbate and its role in photoprotection Arabidopsis thaliana under HL treatment”.
5. Dr.Sangeeta Sankhalkar attended International Conference organized by Society for Plant Physiology and Biochemistry, India at Sambhalpur University, Bhubaneswar, from 17-19 February, 2011 entitled “Ascorbate accumulation and gene expression in Arabidopsis thaliana under HL exposure.

6. Dr. Sangeeta Sakhalkar attended International Conference organized by Society for Plant Physiology and Biochemistry, India at Sambhalpur University, Bhubaneswar, from 17-19 February, 2011 and presented a paper entitled “Ascorbate accumulation and gene expression in *Arabidopsis thaliana* under HL exposure”.
7. Dr. A.V. Veeresh attended the 12th National Conference of Science & Environment on Interdisciplinary Approaches in Environmental Sciences at The M. S. University of Baroda, Vadodara, from 9th to 10th October, 2010 and presented a paper entitled “Effect of Pesticides on Blue Green Algae”.
8. Dr. A.V. Veeresh attended the National Conference on Biodiversity and Biotechnology for Sustainable Development organized by P.G. Department of Botany, Karnatak University, Dharwad & UGC-SAP-DRS-III, and presented a paper entitled “Effect of fertilizers on indigenous species of BGA from rice fields of Goa”.
9. Dr. A. V. Veeresh attended the symposium on Wetlands, Biodiversity and Climate Change conducted by Energy and Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore on December 22-24, 2010 and presented a poster entitled “Effect of Lead on the Functioning of Laboratory Model Waste Stabilization Pond”.
10. Dr. A. V. Veeresh presented a paper entitled “Density of Biodiversity of Blue Green Algae in Rice Fields of Goa” at the symposium on Wetlands, Biodiversity and Climate Change conducted by Energy and Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
11. Dr. R Kanchana made a presentation on “Exploring the potential biotechnological applications of an alkaline protease from a bacterial species” at the national seminar on ‘Frontiers in Biotechnology’ held on 3rd & 4th December at C.K.T College, New Panvel.
12. Dr. Sanjay Gaikwad presented a paper on “Threatened Icons of Conservation of Bio-diversity... Can we Preserve it?” at the National Conference on Recent Advances in Sustainable Development organized by Mahaveer College, Kolhapur and Shivaji Vidyapeeth Bhugol Shikshak Sangh, Kolhapur on 22nd – 24th February 2011.
13. Dr. Sanjay Gaikwad, Suyog Patwardhan and Mayuresh Potphode presented a paper on “Meso climate Change and Changing Growing Seasons over Maharashtra Plateau Region” at the XXXII Indian Geographers Meet and International Conference on “Climate Change, Geo-Hazards and Disaster Management” at Jaipur from 17th to 19th January, 2011.

14. Dr. Nandkumar Sawant, Mrs. Angha Dicholkar and Miss Mallica Desai jointly presented a paper “Tourism, women and Sustainability” at National Conference on “Environment, Population and Tourism” held at Pitre – Sapre – Athalye College, Devrukh, 3rd to 5th March, 2011.
15. Dr. Nandkumar Sawant was invited as resource person to speak on the topic “Goa: Mangroves in Troubled Waters – Mitigation and Strategies” at the Interdisciplinary National Seminar on “Biodiversity and Conservation with reference to Indian Desert” organized by India Human Ecology Council, Jaipur on 5th & 6th June 2010.
16. Dr. Nandkumar Sawant was invited as resource person for the National Seminar–Cum-Workshop in Geography on “Application of Remote Sensing, GIS & GPS in Geographical Research” organized by Mahavir Mahavidyalaya, Kolhapur and Department of Geography, School of Geosciences Bharathidasan University Tiruchirappalli (TN), on 25th to 27th February, 2011. He presented a paper on “Study of Coastal Tourist Destination Palolem Beach,Goa- Possibilities of applying Remote Sensing & GIS.”
17. Dr. Nandkumar Sawant was invited as resource person for the National Conference on Research Methodology in Geography at Shri Havgi Swami Mahaviyadalya, Udgir. He delivered a lecture on “Human Geography and using participatory Rapid Appraisal in understanding Spatio-temporal Analysis”.
18. Dr. Nandkumar Sawant was invited as a resource person for the National Conference on “Environment, Population and Tourism” held at Pitre – Sapre – Athalye College, Devrukh, 3rd to 5th March, 2011. He spoke on “India’s Population Growth and Stability”.
19. Dr. Nandkumar Sawant, Mallica Dessai presented a paper on “Urbanization and vanishing Identities: A socio-historical review of Gaudi Community of Agalli, Margao” at the XXXII Indian Geographers Meet and International Conference on “Climate Change, Geo-Hazards and Disaster Management” at Jaipur from 17th to 19th January, 2011.
20. Dr. (Mrs) Mangala Veeresh presented a paper at the National Symposium on “Wetlands, Biodiversity and Climate change” from 22nd to 24th December 2010 on "Effect of Lead on the functioning of laboratory model waste stabilization pond", organised by Energy and Wetlands Research group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
21. Dr. Debashish Mazumdar was invited as the keynote speaker at the national level seminar titled “Terrorism and its Impact on Indian Economy”, sponsored by UGC, and organized by the Field Marshal KM Cariappa College, Madikeri on 29th January 2011.
22. Dr. E. Mericio Travassos presented a research paper entitled “Financing Disadvantaged Communities towards Peak Performance – Microfinance and the Role of Financial Innovations”

on 27th April 2011 at the international conference “Emergence of India as Global Economic Superpower: Fiction or Future?”

Within Goa

- 1) Dr. R. Kanchana presented a paper entitled “Study on a pharmaceutically important enzyme-Cholesterol Oxidase from a bacterial isolate” at the National Symposium on “Microbial Diversity and its Applications in Health, Agriculture and Industry” at ICAR Research Complex for Goa, Old Goa (4th to 5th March, 2011).
- 2) Dr. Debasish Mazumdar & Danica Menezes presented a paper “Working of Co-operative Sector Banks in post-liberation period : A case study of Madgaon Urban Co-op. Bank” at Mallikarjun College, Canacona on 2nd Dec, 2010.
- 3) Dr. Nandini Vaz Fernandes presented a paper on “Effect of Paternal Alcohol Consumption on the offspring” at the National Seminar on “Current and Emerging Trends in Animal Sciences” organised by Department of Zoology of our college on 26th and 27th November 2011.
- 4) Miss Sarah Pereira presented a paper on “Survey of Diseases in the different age groups in sample population of south Goa” at the National Seminar on “Current and Emerging Trends in Animal Sciences” organised by Department of Zoology of our college on 26th and 27th November 2011.
- 5) Miss Rubina Fernandes presented a paper on “Evaluation of Teratogenic potential of Capsicum on *Rattus norvegicus*” at the National Seminar on “Current and Emerging Trends in Animal Sciences” organised by Department of Zoology of our college on 26th and 27th November 2011.

ANNEXURE II

Publications

1. Mesta Diwakar (2010) “Digital database on ethno-medicinal plants of Western Ghats” in Current Science, Volume 99, Number 12, 2010
2. Mesta Diwakar (2010) “*Burmannia championii* Thwaites (Dioscoreales: Burmanniaceae), a new addition to the flora of Karnataka” has been accepted for publication in an international online journal ‘Journal of Threatened Taxa (JoTT)’.
3. Sawant N. N. (2010) “Characteristics of Emigration of Goan Catholic Women: A Case Study of Rural Salcete Taluka, Goa – India, Interlink Research Analysis”, Vol II, Issue II, July – Dec 2010 Pg 20-28 (ISSN 0976-0377).

4. Sawant N. N. and Sumata Shetkar (2009) “A Review of Human Health and Diseases in Goa, The Goa Geographer”, Vol VI, No 1, Dec 2009 Pg 58-64 (ISSN 0976-786X).
5. Pujari P and Roy R (2010): “Diets rich in n-3 Polyunsaturated fatty acids are associated with amelioration of D-Galactosamine induced hepatitis in Mice”. *Recent Research Sci. Tech.*, 2: 69-77.
6. Pujari P, Vajreswari A and Roy R (2010): Effect of dietary manipulation of lipids on mice, *Mus musculus*. *Advances Biol. Research*, 4: 146-153.

Books

1. Shri Shrikrishna Adsul published a book “Sangatsobat”, - a book of critical essays on Gomantak Marathi writers.
2. Shri Hanumant Chopdekar published three books in Konkani - “Asturi Pratima”, “Dam Dama Dam” and “Hanv Saiba Modern Jata”.