

GOVERNMENT OF GOA
COLLEGE OF
ARTS, SCIENCE AND COMMERCE,
KHANDOLA, MARCELA-GOA-403107

Affiliated to Goa University



Reaccreditation – 2nd cycle

Self Study Report **(SSR)**

Submitted to

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PREFACE

Government College of Arts, Science & Commerce, Khandola, is located at Marcel, a place considered to be nominated as the cultural capital of Goa. The College is positioned on the periphery of a small town catering to the needs of students from the surrounding villages. The location of the College which is reasonably distanced from the distractions of a commercial sector without hindering the connectivity is endowed with natural beauty, serenity and tranquillity. Majority of the potential beneficiaries of this educational institution of higher learning are first generation learners originating from homes located in villages. This distinct characteristic enables the preservation of ancient gurukula tradition which is our well thought-out strength of character for creation of eligible human resource. The high ratio of the female students enrolled and large number of female staff recruited is an attestation that women empowerment is prevalent.

The College commenced its operations on 20th June 1989 with a modest strength of 126 students, 3 full time lecturers and a Principal. This humble beginning was extended through a prosperous path and achieved a mile stone by celebrating the Silver Jubilee in the year 2014. During this period the College acquired all pre-requisite affiliations from Goa University and UGC certification of recognition under 2(f) and 12 (B). In 25 years, the College was able to position itself as a reputed educational entity in fields ranging from academics, sports activities and cultural programmes, by providing access to quality education for all, with a special emphasis on the under privileged students enrolling from a geographically backward area within the state Goa.

In an effort to validate and document our achievements the College presented itself for the first assessment by NAAC during the academic year 2005-06. The process culminated in accreditation and award of B+ grade in September 2005. The new found status by way of NAAC accreditation inspired the faculty and administrative staff which in turn resulted in quality enhancements in the arenas of academics, sports and cultural activities. The projected aim for re-accreditation was constrained owing to the limited infrastructure available at that designated time. However an appropriate placement of this issue to Government of Goa and its consistent perusal resulted in creation of an adequate infrastructure which got inaugurated and made operational in June 2015.

On achieving the goal of creation of infrastructure and with a realization of the accrued setback due to procedural delays, the College started afresh with new hopes and ventures the process of NAAC accreditation in its pursuit for quality assurance with due recognition of our college vision, to make this institution a '**Centre for Excellence**'. The new building is the only structure in the state to get the certification of green building by *GRIHA*.

The mission of our College; **“To dedicate its energy to be responsive to the needs of an ever-changing society by promoting excellence in academics and art”** reflects in various aspects of functioning of our College in the last ten years like excellent academic performance of students, achievers at various sports and cultural programmes, community service through NSS and various cells and clubs. Research finds predominance in the minds of students and faculty and it reflects in the quality work done so far, for the benefit of society and mankind. In view of this, the college proposes to establish post - graduation centre in Chemistry and Commerce and initiate research centre in Political Science and Konkani language from coming academic year. The vibrant IQAC, Alumni, PTA brings the College to the forefront in various fields and materializes the concept of holistic development of the individuals. The placement record shows well placed alumni in all walks of life.

EXECUTIVE SUMMARY

Government College of Arts, Science and Commerce, Khandola an affiliated college of Goa University was established in 1989. The college is managed by Government of Goa. The College aims towards offering quality education to its students in fulfilment of all the specifications laid down by University grants commission and Goa University. The College also focuses on empowering students to be good leaders who will spread the light of knowledge, harmony and equality in all spheres of life. The Government of Goa and Government College of Arts, Science and Commerce, Khandola is set to welcome the second visit by the NAAC Peer team for its appraisal of this institution.

The College acquired the independent building in the year 2005. The first Cycle of assessment of NAAC was done in the year 2005 and the College was awarded B+ grade on 2005. In the following years the College has added several feathers to its cap in academics, sports and cultural activities. The College completed 25 years in the Year 2013-14 and celebrated Silver Jubilee. The re-accreditation process was not completed owing to the up gradation of the infrastructure. The construction of the new building was initiated in the year 2012; in view of the increasing strength of students. This building which houses the Arts and Commerce block independently was inaugurated in July 2015.

The summary of the criterion wise analysis of the College is given below.

Criteria I

This criterion discusses the study programs available for the students including various study courses and options available. It also throws light on different Certificate and Skill-based courses provided by the College. Besides the regular B.A., B.Com., B.Sc., the College also offers B.Sc. in Microbiology and B.A. in Psychology. The College aims to make the students self-reliant so as to survive in society despite the shrinking job market. Hence various Certificate and Skill-based courses such as ASP.NET, PHP, Organic Farming, Practical Banking, Water Analysis, Origin, Hardware Maintenance and Troubleshooting, Online Oracle Academy courses, Library Studies, etc. are conducted by the various departments. The department of languages and Political Science has initiated the setup of a research centre and affiliation of Goa University is awaited. The Department of Chemistry and Department of Commerce will be commencing the post-graduation courses, (M.Sc.) in chemistry and M. Com. respectively. The teaching staff of college are members of Board of Studies. Many teaching staffs are involved in curriculum development as they are in syllabus restructuring committees. A large number of our teachers assist in University examinations and paper setting,

moderators and evaluators. The College organizes study trips to industries, research centres and different organizations. The faculty and the students participate actively in various intra and inter college competitions, workshops and seminars (state, national and international). NSS, Sports and various associations are constituted in the college and students are encouraged to join them.

Criteria II

Our College provides student centric teaching learning and evaluation, enforced as per the statutes and ordinances of the affiliating University, Goa University. For effective implementation of the curriculum, the College deploys following action plan.

- An Academic calendar is prepared in advance and published in the College prospectus.
- The time tables are prepared in advance and made available before the commencement of each semester
- Every department submits the activity calendar for the semester which supplements the syllabus plan.
- The progress of the students is maintained through two Intra Semester Assessments done via written tests, assignments, presentations, posters, etc. and Semester End Examination.
- The principal conducts meeting with faculty members at the beginning and end of every semester to assess the progress made by the students.

To make the learning process more ICT oriented, Government has equipped the classes with learning tools like LCD. Free internet browsing is provided in the library which is enriched with N-list and INFLIBNET. The sense of social responsibility is fostered among the students through seminars and talks by prominent speakers. Staff welfare committee is very vibrant and conducts faculty development programs for staff.

Criterion III

Institution encourages and extends all assistance to promote research to faculty and students. The institution has a research committee which monitors the quality of research. Presently seventy five percent of the faculty are involved in active research. Seventeen faculty members are awarded Ph D degree and five are reading for their Ph. D. The faculty is actively involved in presenting papers in national and international seminars, conferences etc. Two of our staff members have been able to take the benefit of sabbatical leave and have produced constructive research contribution. Three faculty

members have been awarded research fellowships and five members have received awards for their research contribution. The College has received funding for two major research projects funded by UGC and ICSSR and three minor research projects by UGC in the X plan and XI plan. The institute publishes its own in-house research journal titled "Khoj". To promote research, the institute has applied for research centre in Konkani and Political Science. A total of 85 research papers have been published by the faculty in last 5 years in peer reviewed, referred National and International journals and as chapters in edited books in their own capacity or through collaboration. The College has collaboration with different research institutes funded by DST, UGC, ISRO, IICA, ICAR, GIRDA, BARC, NIIST, NIO, NCAOR, Hyderabad University; Indian Academy of Sciences. The college has signed an MOU with GIPARD Old Goa and collaborated with Goa Medical College, Bambolim.

The College has an excellent record of accomplishment with respect to extension activities in different categories like health awareness where blood donation camps are held, talk by doctors, health camps, environmental awareness, gender sensitization through poster competitions. NSS unit organises extension programme like cleaning, plantation, prevention of drug addiction, visits to orphanages and old age homes. The extension activities ensure growth of students awareness as responsible citizens.

Criterion IV

The College has a built up area of 6697 m² with thirty ICT enabled classrooms, eleven laboratories, seminar halls, library, examination centre and recreational spaces like gymnasium, cafeteria and multipurpose hall. Each classroom can accommodate a maximum of sixty students as per the guidelines of GU. Computer Science, Chemistry, Microbiology, Physics laboratories are upgraded with required laboratory instruments. The College has a well ventilated seminar hall with AC, LCD projector, Laptop to organize seminars, lectures and other academic activities and meetings. The multipurpose hall is used for various extracurricular activities and indoor sports. Health care facilities and doctor on call is available in case of emergencies. The library is equipped with books, periodicals, journals and e-resources. The maintenance and of the cleanliness of the college is outsourced to the external agency. The Electricity Department and PWD look after the maintenance of the College in the respective areas. The up-gradation and the upkeep of the infrastructure is done by GSIDC.

Criterion V

The College is situated in rural area where students from diverse socio-economic backgrounds and first generation learners are admitted. The college

website www.khandolacollege.edu.in, prospectus and magazine provides relevant information to the stake holders. The College provides useful support systems to enable student- learning and progression. In an attempt to provide equal opportunity to all, the SC/ST/OBC students are identified at the time of admission and are urged to avail scholarships and free ships. The welfare schemes for students include financial assistance like Students Aid Fund, Scholarships like Bursary Schemes, Gaganbharari, education loans to pursue further education, assistance to needy students in the form of book bank and reimbursement of medical expenses.

Many student representatives are members of statutory committees. Academically there are support mechanisms viz. mentoring, and remedial classes. A Counselling Cell along with services of a professional counsel or is available on campus while the Mentoring System extends academic, career and personal guidance. The Placement Cell organizes campus recruitment. The College has an excellent success rate for all programs. The College has been able to keep a low failure rate and the dropout rate is almost negligible. Special support system is provided to students who face the risk of failure. The progression of students to higher education has been good and many students seek admission to post graduation courses. The College has monitored the menace of ragging and sexual harassment by constituting Anti Ragging Committee and Committee against Sexual harassment governed by senior staff members of the college as per the UGC regulations. The College has a Parent-Teacher Association, an Alumni Association, and a Grievance Reddressal Cell. Students can express their creativity and ideas in the College magazine and departmental newsletters. Leadership roles are created through election to the Students Council.

Criterion VI

The governing body of the College is the Government of Goa which functions via Directorate of Higher Education with Director of Higher Education as the head, who plays the leading role in governance and management of the institution. The Principal of the college is the head of the institution and ensures transparency in the functioning of the College administration and academics. The College has efficient co-ordination and management under the leadership of the Principal for designing and implementing the plans and polices effectively through the committees constituted as per the statutory and non-statutory norms. All the stake holders, students, parents, community, directly or indirectly participate in the functioning of these committees. The College follows a participative mechanism through IQAC, PTA, alumni and Student's Council. The decentralization process is followed through the head of departments who looks after the functioning of the individual departments. The financial decisions are monitored via Standing Accounts Committee instituted by the government. The administrative and

accounts department looks after the respective areas. The Purchase Committee looks after the judicious expenditure of funds. Thus, transparency in financial matters is maintained.

Criterion VII

Government College of Arts, Science and Commerce, Khandola-Marcela-Goa is the first educational institution in Goa that has a *Green Building*, as it fulfils the criteria laid down by the Green Rating for Integrated Habitat and Assessment (GRIHA). The Goa State Infrastructure Development Corporation (GSIDC) built the College building abiding by these criteria of GRIHA. The College has a clean and healthy environment. The students and staff of the College are environment conscious and have taken initiatives to conserve and promote a healthy environment. Tree plantation drives, State level seminars/workshops, National Environment Awareness Campaigns, and hikes are organized to address issues of environmental concerns through Nature Club and NSS Unit. Initiatives towards making the campus eco-friendly have been adopted by the institution such as solar power generating system, use of LED and CFL bulbs and sensitizing students to conserve energy. The College has a rainwater harvesting tank on site to collect the storm water. Conservation of water resource is promoted by various department of the College. Carbon neutrality is enhanced through measures like car-pooling, naturally light classroom, dust free classrooms and smoking ban in the college premises. Students are encouraged to make and use of cloth bags and recycle plastic so as to reduce hazardous waste. The College has proposed solid waste management, effluent treatment, water analysis, glass disposal initiative in association with Goa Pollution Control Board. Various innovations have been initiated by the institution such as automatic bell, working model of biogas plant, book bank, and appointment of a counsellor. Our best practices include Micro biomics for a Healthy Environment, Academia - Industry Interface which high lights study trips, summer trainings and placements, Club "Spektrum" of chemistry department which organizes various innovative activities every semester in tune with environment and chemistry

SWOC Analysis of the institution

Strengths

- Well Trained, research oriented, experienced, dedicated and energetic faculty.
- Excellent and well maintained infrastructure in the form of new building. This is the only College in the state to have a green Building.
- Good teaching and learning environment supported by prolific library, ICT and well equipped Laboratories.
- Faculty with major and minor research projects, publications in research journals and research fellowships.
- College is recognized as Research Centre for languages and political Science.
- College is centre for post graduation courses for Chemistry and Commerce.
- Increasing student strength, high enrolment ratio of SC/ST/OBC with dominant female student's ratio.
- Enthusiastic students with aptitude to take up challenging assignments.
- Excellent students - Teachers rapport with emphasis on mentoring and counseling schemes.
- Well organized extension, community service programs and outreach activities by students and faculty.
- College has excellent extra-curricular activities and sport culture with remarkable achievements highlighted in dailies.
- Rooted cultural values, moral responsibilities are reflected in our successful alumni.
- 100% results at the university exams.
- Very good interface with Industries, Research and Educational Institutes.
- Functional IQAC, PTA and Alumni association.

Weaknesses

- Non-recruitment of teaching and non teaching staff, considerable amount of faculty recruited as contract and lecture basis.
- Paucity of funds.
- Delay in procurement of sophisticated instruments for research.
- No independent play ground for students due to scarcity of space.
- Procedural delays in administrative and academic functions of the college.
- starting up training for NET/ SET , MAT, CAT, GRE, TOEFEL, GATE exams.

Opportunities

- Expansion of academic programs like short term certificate courses, need based and add on courses.
- Commencement of post graduation programme in other subjects.
- Initiation of research centers in other subjects.
- Inception of consultancy centers in collaboration with industries.
- Signing of memorandum of understanding (MOU) with national research institutes, multinational industries and centers in humanities.
- Switch over to the choice based credit course scheme (CBCS) 2017-18 onwards.
- To make consumer co-operative store/cell more vibrant and student friendly.

- To get equipped for autonomy of the college.
- To emerge as centre of potential for excellence.

Challenges

- Motivating students to compete at national level and pursue higher education at reputed centers of learning and undertake research oriented career.
- Many students are first generation learners belonging to weak socio-economic background.
- Designing the training programs in line with the successful placement in fields like Journalism, Mass media, Nanotechnology, Biochemistry, Human rights, Micro economics , Agricultural economics, Health and nutrition etc..
- Optimum utilization of available infrastructure and space constraints.
- Tackling and adapting to the non co-operation of industries and research institutes for collaboration, placement and consultancy.
- Improving student-teacher ratio.
- Attracting students to pure sciences amidst the technology oriented society.
- Adapting to fixed curriculum, statutes as well as ordinances for examinations of Goa University.
- Improving the drop-out rate and focusing on the 100% results.

Future Plans

- To apply for RUSA funds to upgrade the college infrastructure.
- To built the play ground to boost the sporting spirit and enhance the athletic abilities of the students.
- To Start the Post graduate courses in other subjects in science, Commerce and Arts.
- To set up the Research center in other subjects and acquire the infrastructure required for the same.
- To strengthen the industry Institution Interface, conduct summer training programmes for students, Industrial visits.
- To explore the possibilities for organizing programmes for Community service by the staff and the students .
- To make the Career guidance and Placement cell more vibrant.
- To design the training programs/short term certificate courses in line with the successful placement in fields like Journalism, Mass media, Nanotechnology, Biochemistry, Human rights, Micro economics, Agricultural economics, Health and nutrition etc..
- To commence Consultancy oriented projects with the industries and research bodies.

PROFILE OF THE COLLEGE

1. NAME AND ADDRESS OF THE COLLEGE:

NAME of the COLLEGE:	GOVERNMENT COLLEGE OF ARTS, SCIENCE & COMMERCE
ADDRESS:	KHANDOLA, MARCELA-GOA
CITY: KHANDOLA	WEBSITE: www.khandolacollege.edu.in
STATE: GOA	PIN CODE: 403107

2. FOR COMMUNICATION:

DESIGNATION	DETAILS	
PRINCIPAL	NAME:	Dr. Jivexa Bhattacharjee
	TEL:	08322287718
	MOB:	09422440970
	FAX:	08322287718
	MAIL:	gcasck@rediffmail.com
STEERING COMMITTEE CO-ORDINATOR	NAME:	Dr. Beena Vernekar
	TEL:	08322287718
	MOB:	09420818943
	FAX:	08322287718
	MAIL:	Beenav12@rediffmail.com

3. Status of the Institution: Affiliated College

4. Type of Institution:

- a. **By Gender** : Co-education
- b. **By Shift:** Regular

5. It is a recognized minority institution? No

6. Sources off undoing: Government

7. a. Date of establishment of the college :20-06-1989

b. University to which the college is affiliated :Goa University

c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks (If any)
i.2(f)	24-8-2006	Certificate enclosed
ii.12(B)	24-8-2006	Certificate enclosed

(Enclose the Certificate of recognition u/s 2(f) and 12(B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Nil/Not applicable

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes

No

If yes, has the College applied for availing the autonomous status?

Yes

No

9. Is the college recognized

a. by UG C as a College with Potential for Excellence (CPE)?

Yes

No

b. for its performance by any other governmental agency?

Yes

No

10. Location of the campus and area in sq. mts:

Location*	Rural
Campus area in sq. mts.	12625
Built up area in sq. mts.	6555

(*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities.

The college is in possession of an open air amphitheatre, an auditorium that can house 250 people, an air-conditioned seminar hall with all relevant audio visual presentation equipment with an accommodation capacity for 80 participants and an air-conditioned conference room.

- **Sports facilities**

- * Playground: Provided externally
- * Swimming pool: Provided externally.
- * Gymnasium ✓: Available in campus

- **Hostels- Nil**

Residential facilities for teach in grand non-teaching staff (give numbers available -cadre wise): Government accommodation in general pool-quarters available at various locations in Goa.

- **Cafeteria -1** available in campus.
- **Health centre-** Government primary health is situated center nearby. First aid, Inpatient, Out patient
- **Emergency care facility,** 108 ambulance is available, primary health centre near by.
- **Health centre staff (At primary health centre) -**

Qualified Doctor	Fulltime
Qualified Nurse	Fulltime

- **Facilities like banking, post office, book shops** within 1 km.
- Transport facilities to cater to the needs of students and staff √ one college bus and one staff car is available.
- Animal house : Nil/Not required
- Biological waste disposal: √ **(outsourced to external agency)** Procurement of bio-waste convertor in the offing.
- Generator or other facility for management/regulation of electricity and voltage √ **Diesel generator, inverter, and UPS systems are installed.**
- Solid waste management facility: √ **Outsourced to an external agency**
- Waste water management: √ **Disposal of waste water as per health department guidelines.**
- Water harvesting: √ **A roof top water harvesting facility is available. Creation of a harvested water storage facility awaited.**

12. Details of programs offered by the college (Give data for current academic year)

Sl. No	Program Level	Name of the Programme Course	Duration	Entry Qualification	Medium of instruction	Approved Student strength	No. of students admitted
	Under - Graduate	B.A / B.Sc. / B.Com	3 years	Higher secondary certificate.	English	780	630

13. Does the college offer self-financed Programs?

Yes

No

14. New programs introduced in the college during the last five years if any?

Yes

No

* Chemistry and Microbiology (6 units) introduced in 2010 -11.

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programs. Similarly, do not list the departments offering common compulsory subjects for all the programs like English, regional languages etc.)

Faculty	Departments	UG	PG	Research
Science	Physics, Chemistry, Micro-Biology, Computer Science	√	M.Sc. in Chemistry from 2017-18	Will be set up in future
Arts	Economics, Political science, Geography, Psychology, English, Hindi, Marathi, Konkani	√	Under consideration	Research centre in Konkani and Political Science
Commerce	Commerce	√	M.Com to start from 2017-18	Will be set up in future

16. Number of Programs offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- | | |
|---------------------|---|
| a. Annual system | 0 |
| b. Semester system | 3 |
| c. Trimester system | - |

17. Number of Programs with

- a. Choice Based Credit System NIL
 b. Inter/Multidisciplinary Approach NIL
 c. Any other (specify and provide details) ---

18. Does the college offer UG and/or PG programs in Teacher Education?
 Yes No

19. Does the college offer UG or PG programme in Physical Education?
 Yes No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-Teaching		Technical	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
Sanctioned by the UGC/ University /State Government	NIL		21		13		35		1	
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
<i>Recruited</i>	NIL	NIL	9	12	1	8	14	11	0	0
<i>Yet to recruit</i>	NIL		0		4		10		1	

*M-Male*F-Female

21. Qualifications of the teaching staff:

Highest Qualification	Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	
Permanent Teachers	08	13	01	09	32
Ph.D.	07	08	--	02	17
M Phil	02	02	--	01	05
Only P.G.	01	03	01	06	11
Temporary Teachers: Contract basis	--	--	03	06	09
Ph.D.	--	--	--	01	01
M Phil	---	--	--	--	--
P.G.	---	--	03	05	08
Temporary Teachers: Lecture basis	--	--	01	20	21
Ph.D.	--	--	--	--	--
M Phil	--	--	--	--	--
P.G.	--	--	01	20	21

Re-Assessment:

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refer store- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)
Cycle 1: 21-9-2005
Accreditation Outcome/Result....**B+**
**Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.*
31. Number of working days during the last academic ear.
227
32. Number of teaching days during the last academic year
(Teaching days means day son which lectures were engaged excluding the examination days)
186
33. Date of establishment of Internal Quality Assurance Cell (IQAC)

The College has set up an Internal Quality Assurance Cell (IQAC) vide office order no, **GCASCK/EST/NAAC/05/1341 dated 29/10/2009** and thereafter through memorandum no. **GCASCK/EST/NAAC/05/1057 dated 13/09/2011.**
34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to
Yet to be submitted
35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/ descriptive information)
The college is under consideration to move on to **Choice Based Credit System**

CRITERION I

CURRICULAR ASPECTS

1.1 CURRICULUM PLANNING AND IMPLEMENTATION

1.1.1 State the vision, mission and objectives of the institutes and describe how these are communicated to the students, teachers, staff and other stakeholders?

The College has a well-defined vision, a dedicated mission, and clear objectives and goals.

OUR VISION IS "Centre for Excellence"

The College aims at promoting excellence in academics, sports, cultural activities, research and extension activities. The students are furthermore encouraged to develop their dormant talents and skills.

OUR MISSION

"To dedicate our energy to be responsible to the needs of an ever changing society by promoting excellence in academics and art"

In addition to the regular course curriculum, the College also provides a wide spectrum of educational opportunities for skill development, entrepreneurship, employability and overall personality development. Socio-economic and gender equality is also promoted and practiced.

Being a rural College surrounded by the bounties of nature, we advocate preservation of nature through environmental awareness programs. Individual artistic talents are also nurtured and allowed to blossom with constant encouragement.

Our College for the past 25 years has been instrumental in producing respectable citizens. The primary aim of the College is to tap the intrinsic potential of the students from the rural vicinage, and metamorphose them into individuals capable of inculcating value in the society, be it academics, art, sports, culture, or music.

The College accentuates higher learning and research and this is reflected in the fact that the, College is marching ahead by commencing the two new post graduate courses in Commerce and Chemistry from the academic year 20117-18. The establishment of two research centres in political science and konkani language is a feather in the cap for the College.

The short term certificate courses in environment protection, gender aspects, and solid waste management in the offing, highlights the sensitivity of the College towards these issues and the desire to emerge with a solution.

The College is stepping ahead with one more coalition with IIT, Mumbai for spoken tutorials in information technology online courses for this academic year to make our students' computer savvy.

OUR GOALS AND OBJECTIVES

Our goals and objectives are as follows

- To promote high standards of education in an environment conducive to the needs of undergraduate students.
- To provide undergraduate education that will enable students to be responsive to the needs of an ever-changing society.
- To promote advancement of scholarly and artistic activities for students and faculty.
- To foster a culture that supports and reinforces ethical and pro-social values.
- To create an environment in which students and faculty find support and encouragement in achieving life goals.

The College mission, vision statements, as well as the goals and objectives are printed in the prospectus and magazine. They are also communicated through the College website and displayed at prominent places in the College campus.

1.1.2 How does the institute develop and deploy action plan for effective implementation of the curriculum? Give details of the process and substantiate through specific examples.

- ❖ Our College conducts under-graduate degree program in Arts (B.A.), Science (B.Sc.) and Commerce (B.Com.). The College is affiliated to Goa University. The curriculum is prepared by Goa University.
- ❖ Each teacher prepares a semester wise teaching schedule based on the academic calendar communicated by Goa University such that the recommended syllabus is completed in time.
- ❖ At the beginning of each semester a copy of the syllabus is given to the students. All non-experimental subjects have 5 lecture periods and experimental subjects have 3 lecture and 2 practical periods each. The College prepares a time-table for theory and practicals and it is displayed before the commencement of each semester.
- ❖ A copy of the time-table is displayed on the staff and students' notice board. Normally non experimental papers have 75 lectures and experimental subjects have 45 lectures.
- ❖ Each practical is of 2.15 hours duration till semester IV and 3 hours for semesters V and VI.

1.1.3 What type of support (procedure and practical) do the teachers receive (from the University and/or institution) for the effectively translating the curriculum and improving teaching practices?

- The University involves Board of Studies in preparing the curriculum and the approved syllabus is sent to the affiliated Colleges. The syllabus is also revised from time to time by the University.
- The University also organizes refresher courses /orientation programs (subject wise) seminars/workshops etc. wherein the faculty can upgrade and update their knowledge and skills.
- The teacher receives full support from the College in translating the curriculum into teaching practice. ICT as well as library facilities are provided by the College. The College also helps to procure teaching aids.
- A Two-day Workshop on e-governance was organised by the College in October 2014 to familiarize the said system to the teaching and the non teaching staff of the College.
- A workshop on CBCS (choice based credit system) was organised in October 2015 to update the new system to be implemented in the near future.

1.1.4 Specify the initiative taken up or contribution made by the institution for the effective curriculum delivery and transaction on the curriculum provided by the affiliating university or other statutory agency.

The College has taken many initiatives for the effective delivery of the curriculum provided by the University.

- All the classrooms have been provided with LCD projectors and the teachers use these facilities in their everyday teaching. It has helped the students in the learning process.
- Similarly all the science laboratories have been equipped with the relevant equipment.
- Ten faculty members have served as chairpersons or members of board of studies (BOS) of the Goa University and have contributed in the restructuring and framing of syllabus of finance, macroeconomics, computer science, and microbiology.
- They have given valuable suggestions regarding new combinations, incorporation of recent developments, as well as promoting of interdisciplinary research.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

The College has a network with industry, research bodies and University and interacts with them regularly.

A) Industry:-

- Industry visits are conducted in order to familiarize the students with industry setup in Goa, as well as in other states.
- Guest lectures by eminent personnel from industries are regularly organized.
- Many project problems taken up by the final year students are related to industrial sectors.

B) Research bodies:-

- The Faculty members as well as students of Department of Microbiology have availed of laboratory facilities in National Institute of Oceanography, Birla Institute of Technology and Science-Pilani (BITS), and Indian Council of Agricultural Research (ICAR) for the purpose of conducting important research work.
- The Department of Microbiology organizes an annual study tour to various Research institutes in different parts of India.
- Students of the College are encouraged to interact with scientists from National Institute of Oceanography, Birla Institute of Technology and Science-Pilani (BITS) and Indian Council of Agricultural Research (ICAR).
- T. Y. B.Sc. students of Chemistry Department use analytical instruments facilities of Goa University at USIC, NCAOR, NIO etc.
- The third year students of Department of Microbiology attend a course on the mushroom cultivation and nutrition at Krishi-Vigyan Kendra every year as part of Vth semester practical syllabus.

As a result of active collaboration with research bodies and motivation from the College, we present following achievements of our students in their respective subjects:

- The students of Department of Microbiology have presented posters at international conference TERAPRETA organized by the Birla Institute of Technology and Science-Pilani (BITS) and also at International conference held at Kochi.
- Tanviraj T. Parwar, College Topper Prize, awarded by the Scientific Research association for Economics and Finance organized by Parvatibai College, Department of Economics, Margao-Goa in December 2015.
- Ms. Utkarsha Mardolkar was awarded third prize for poster presentation titled '**photocalalytic Degradation of AZO dyes photo-**

Fenton Reagent in aqueous medium' at the 6th Annual Inter - collegiate Symposium for T.Y.B.SC (Chemistry) students "Fascinating World of Chemical Sciences" organized by Department of Chemistry on March 17, 2012 at Goa University guided and authored by Dr. Jivexa Bhattacharjee.

- T.Y. B.Sc student Ms Stacy Rocha won the second place for oral presentation 2013 on "**Nanomaterials derived from Ferrites**" at the 7th Annual inter collegiate symposium organised by Department of Chemistry held on 9th March guided and authored by Dr. Beena Vernekar .
- Ms. Pratika Raikar was awarded second place for Best Poster Presentation on the topic "**Hazardous Holi Colours**" at 8th Annual Inter collegiate T.Y. B Sc. Chemistry Symposium on organised by Department of Chemistry on March 15, 2014 guided and authored by Dr. Rajashri Mordekar.
- F.Y. B.Sc student, Mr. Schubert Fernandes won first place for **Oral** presentation at one day intercollegiate Chemistry event **KYNESIS** organised for BSc students on 20th February 2016 by Parvatibai Chowgule College of Arts and Science.
- F.Y.B. Sc. student Mr. Dixit phadte and Mr. Charant Naik won first place for **poster making** ("Chemistry - yesterday, today, tomorrow") at one day intercollegiate Chemistry event **KYNESIS** organised for B.Sc. students on 20th February 2016 by Parvatibai Chowgule College of Arts and Science.
- F.Y.B.Sc. student Ms. Stacy Remedios and Mr. Schubert Fernandes won first place for **Action Reaction-** at one day intercollegiate Chemistry event **KYNESIS** organised for B.Sc. students on 20th February 2016 by Parvatibai Chowgule College of Arts and Science.
- B. Sc. students Sanam Vaingankar and Madhuri Naik won first place in the poster competition organised on the theme "**Green Chemistry**" for B.Sc. students at the Annual convention of Chemistry Teachers was held on 24th February 2016 at Government College of Arts Science and commerce, Sanquelim, Goa.

C) Goa University:-

- Goa University organizes different workshops, symposia, seminars etc. to update the teachers for their curriculum.
- The Academic Staff College of Goa University organizes orientation and refreshers courses for career advancement of teachers.
- Teachers and the Students of the College avail library facilities, as well as laboratory facilities for research and project work respectively.
- Goa University organizes different curricular, co-curricular, and extra-curricular activities for College students.
- Department of Chemistry, Goa University organizes Annual Inter-collegiate Symposium for T.Y.B.SC (Chemistry) students "Fascinating World of Chemical Sciences" competition of oral and poster presentations of T.Y B.Sc. projects.

1.1.6 What are the contributions of the institutions and/or its staff members to the development of the curriculum by the university? (Number of staff members/Departments represented on the board of studies, students feedback, teachers feedback, stakeholders feedback provided, specific suggestions etc.)

The faculty members have been members of the Board of Studies in different subjects.

NAME	WORK UNDERTAKEN IN BOS
Dr. Prabir K. Rath (Geography)	Chairman, BOS in (Goa University, w.e.f. March/April 2015 till date. Framed the syllabus in Geography for CBCS pattern and syllabus of undergraduate and post graduate in Geography under Goa University. As an external member of BOS in Geography and framed the syllabus of undergraduate, post graduate, M. Phil programme of Jiwaji University, Gwalior.
Dr. Seema Rath (Economics)	Has contributed to drafting of syllabus for the following papers in Economics 1) Public finance 2) Micro economics 3) Macro economics. Drafted syllabus in Economics for GPSC's competitive examination. Also Member of BOS in Economics, Goa University during 2011-15.
Dr. S.V. Sukhtankar (Commerce)	Drafted syllabus in Major Advance Accounting – Paper I in 2015 & Advance Accounting Paper II in 2016. Member of BOS sub-committee to review and finalise syllabus and evaluation of S.Y. B.Com Applied Component Paper (E Commerce & E Accounting) in 2015. Member of BOS sub-committee to review and finalise syllabus in Accounting for B.Com programme under CBCS and prepared syllabus in Advance Accounting & Elective Accounting paper.
Dr. Pravina Kerkar (Geography)	V.C's nominee for drafting syllabus in Geography (autonomous) at Chowgule College, Margao from 2014-2017.
Dr. Seema Salgaonkar (Political Science)	Drafting of undergraduate and post-graduate syllabus of Goa University
Dr. Isabel Dennis (English)	Member of BOS from 2016-2019. Submitted syllabus as per CBCS in 2016 in English.
Ms Marina Albuquerque (Microbiology)	Member of BOS from 2011-2014 for restructuring of syllabus in Microbiology for undergraduate and post-graduate level.
Dr. Jaison Joseph (Physics)	Member of BOS in 2012 and member of sub-committee of BOS for CBCS syllabus in 2016.
Dr. Dey (Physical Education)	Chairman of BOS in Physical Education from 2011-16. Drafted syllabus for B.P.Ed of Goa University from 2015-16. Member of P.E.T. of Mumbai University from 2011-16. Chairperson of B.P.Ed Examination from 2011-16.
Dr. Jiverxa Bhattacharjee (Chemistry)	Member of sub-committee of BOS for restructuring of syllabus in organic Chemistry for undergraduate level.
Dr. Beena Vernekar (Chemistry)	Member of sub-committee of BOS for restructuring of syllabus in Inorganic Chemistry for undergraduate level.

Informal meetings are held with the staff and students of the College and the suggestions of the students are taken into consideration especially while designing add-on certificate courses.

In regular Departmental meetings, discussions of need-based courses are carried out by the faculty members. Suggestions made by the parents in PTA meetings are also considered.

Members of the alumni association also play an important role especially in suggesting need-based courses.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If yes give details on the process (“Need Assessment”, design, development and planning) and the course for which the curriculum has been developed.

The following need-based employment oriented courses were introduced in our College:

Department	Course	Curriculum Development	No of students	Year	Income generated
Computer Science Department	1. Certificate course in web development in ASP.NET and C+ with SQL server	Database connectivity with SQL server Generating webpage using ASP.Net	24	Three months duration	Rs. 31,200/-
	2. Certificate course on PHP and MYSQCL	Web development	17		Rs. 22,100/-
College library	Library studies	Library classification Library cataloging Library Administration & Management. Library Organization & Management Reference services Application of computer in library		2009-2010 and 2010-2011 (four months)	Rs. 4000/-
Computer Science Department	Online course on Spoken Tutorials in IT	MS Office and basics in information Technology	650	2016 onwards	Nil
Chemistry & Microbiology Department	Water Analysis	Chemical and microbial parameters like COD, BOD, chlorides, sulphate, metal ions and bacteria E coli coliform etc.	40	2016 (three months)	Rs. 20,000/- to be generated

1.1.8 How does the institution analyse/ensure that the stated objectives of curriculum are achieved in the course of implementation?

- **Feedback mechanism:** Feedback obtained from various stakeholders of the institute is analysed, reviewed and the requisite corrective measures are introduced in order to achieve effective implementation of the objectives of the curriculum.
- **Student's performance:** Performance of the students' in various tests and examination also serve as an indicator.
- **Placement:** successful placement of students in various industries, schools, Colleges, Banks, government Departments etc. serves as testimony to the fulfilment of the stated objective.

1.2 Academic Flexibility

1.2.1 Specifying the goal and objective give details of certificate/ diploma / skill development courses etc. offered by the institution.

- ✓ Objective for conducting the courses - The College strives for the overall development of the students which emphasizes not only on academic curriculum but also aims at making them self-reliant economically. It helps them to acquire skills which can be used for self-employment such that they can survive in society despite the shrinking job market.
- ✓ In order to achieve this, the Department of Computer Science started a course in ASP.NET with C+ to enhance student's skills and to develop dynamic websites.
- ✓ The Department of Economics conducted a course on Organic farming in sustainability of agriculture.
- ✓ A five-day orientation course on practical banking was conducted by the officials from public and private sector commercial banks as well as co-operative credit societies. The course content included development of banking, functions of banking, recent developments in banking and credit controls by RBI.
- ✓ Short term certificate course in Water Analysis in collaboration with Goa Pollution control board and microbiology Department is proposed in the month of November. The curriculum will be drafted in conjunction with both the Departments.
- ✓ Computer Science Department in collaboration with IIT, Mumbai has initiated online course on "Spoken Tutorials" in Information Technology emphasizing on MS Office and basics of IT.

1.2.2 Does the institution offer programs that facilitate twinning /dual degree? If 'yes', give details.

The College does not offer twinning / dual degree program as Goa University does not allow for the same.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

At the undergraduate level the College offers a wide choice of subjects and their combinations.

- Range of Core / Elective options offered by the University and those opted by the College

B.A.:

Compulsory Subjects: Information Technology, Environmental Studies, Compulsory English, Gender Studies, Self-Development and Foundation Courses (Resource Geography of Goa, Population Geography)

Optional Languages: Marathi, Konkani, or Hindi

Major Courses: Economics, English, Psychology, Geography and Political Science.

B.Sc.:

Compulsory Subjects: Information Technology, Environmental Studies, Foundation Courses (Functional English, Introduction to Cyber Security and Cyber laws, Introduction to Information System, and I.T. Entrepreneurship)

Major Courses: Physics, Chemistry, Microbiology, and Computer Science, and Maths.

B.Com:

Compulsory Subjects: Information Technology, Environmental Studies, General Management, Mathematical Techniques, Managerial Economics, Statistical Techniques, Business Law, Business Finance, Industrial Management, and Entrepreneurship Management.

Optional Courses: English, Geography of Resources, Accounting, Cost Accounting, Marketing Management, Retail Management, Business Communication, and Business Environment.

Major Courses: Advanced Accountancy, Cost and Management Accounting and Business Management.

- Choice Based Credit System and range of subject options.
In the process of being introduced by Goa University.
- Courses offered in modular form.
Not yet introduced by Goa University.

- Credit transfer and accumulation facility.
This facility is not allowed by Goa University.
- Lateral and vertical mobility within and across programs and courses.
Lateral mobility is allowed in the sense that one can major in one of the subject among the three subjects offered at the first and second year.
- Those completing graduation also pursue post graduate education in their respective subject thus providing vertical mobility.
- Enrichment courses
The College conducts Certificate and Skill-based courses.

1.2.4 Does the institution offer self-financed programs? If 'yes', list them and indicate how they differ from other programs, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

The institution does not offer self-financed programs.

1.2.5 Does the College provide additional skill oriented programs, relevant to regional and global employment markets? If 'yes' provide details of such program and the beneficiaries.

Commencement of the skill-oriented certificate courses simultaneously with the degree course will equip the students with adequate knowledge required to face the world with confidence and add weightage to their credentials and enhance their employability. In view of this Short-Term Courses are conducted by the various Departments in accordance with need-based requirements of the students. Some of the courses conducted were **ASP.NET, PHP, Organic Farming, Practical Banking, Water Analysis, Origin, Hardware Maintenance and Troubleshooting, Online Oracle Academy courses, Library Studies etc.**

The beneficiaries were students and the General Public.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combo of their choice" If 'yes', how does the institution take advantage of such provision for the benefit of students?

This is not permissible as per Goa University rules.

1.3 Curriculum enrichments

1.3.1 Describe the efforts made by the institution to supplement the university's curriculum to ensure that the academic programs and the institutional goals and objectives are integrated?

The College organizes various activities to achieve overall development of our students such as:

- Study trips, field trips, individual visits and visits to research centers.

List of Field trips:

Sr.No.	Department	Places visited
1.	Geography Environmental studies	Chorla Ghat, Brahmakarmali, Cab de ram, Canangani Beach, Palolem Beach, Netravali Savari waterfall, Gaondongrim, Khotigao, Nanus farm, Bhirondem farm, Geology museum, National Institute of Oceanography. Tambdi Surla, Bambolim and Siridao Beach, St. Augustine tower, Harvalem waterfall.
2.	Physics	Birla Institute of Technology and Science - Pilani (Goa Campus), Die-Bold ATM Machine Manufacturing Unit.
3.	Microbiology	Goa Dairy, National Institute of Oceanography, KrishiVigyan Kendra, Opa water works, Pascoals Spice Farm, Bharatiya Vigyan Sammelan and Expo.
4.	Commerce	Revathi Synthetics Pvt. Limited, Crompton Greaves FHP Motors, Central Library, Caculo Mall, Vishal Supermarket, Goa Sahakar Bhandar, Sanjeevani Sahakari Sakhar Karkhana, Goa Dairy.
5.	Political Science	Goa State Legislative Assembly.
6.	Computer Science	D-Link, Funskool, Zenith Computers, National Institute of Oceanography.
7.	Chemistry	Department of Chemistry Goa University, Bharatiya Vigyan Sammelan and Expo, Public lecture by Nobel Laureate Prof. Jean-Marie Lehn Chemistry, National Centre for Antarctic Oceanographic Research, National Institute of Oceanography, Science Centre.

List of Study Tours:

Sr.No.	Department	Places visited
1.	Geography	Jammu and Kashmir, Udupi, Mangalore, Delhi, Chandigarh, Amritsar, Manali, Shimla, Calcutta, Darjeeling, Siliguri.
2.	Microbiology	Mysore- CFTRI, DFRL, Mysore University. Hyderabad-CCMB, CIMAP, Ronald Ross Institute of Parasitology, Centre for Genetic Diseases. Kerala-ICAR. Gujarat & Rajasthan-Amul factory, Institute of Human Genetics, ICAR center for camel research.

- Assignments which take into account curriculum, as well as new advances and developments
- Power points presentations
- Poster presentations, model making.
- Organization and participation in various inter and intra College competitions
- Guest lectures from eminent speakers belonging to different streams
- Participation in various state, national, and international workshops and seminars for both faculty and students.
- NSS, Sports and various associations.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to explicitly reflect the experiences of the students and to cater to the needs of the dynamic employment market?

The Goa University prescribes the syllabus which is adopted by the various Departments in the College. However this syllabus is regularly reviewed, modified and restructured by the Board of Studies keeping in mind the changing trends of society and new advances and development in various fields. As chairpersons/members of the Board of Studies our faculty plays an important role in suggesting, as well as implementing these changes in the syllabus. Thus ensuring the process of imparting quality knowledge is enriched and it does not stagnate, and our students are on par with any other state, national, or international institution.

The College also offers various skill based courses which complement the curriculum such as:

- Courses on software development- Tools and hardware maintenance and troubleshooting.
- Courses on origin software to enable better data projection and analysis.

Other efforts and activities made by the College in alignment with the curriculum of the university and which will enhance the employability of the students are:

- Talks on career guidance.
- Mock interviews.
- Campus interviews.
- Information, as well as coaching is provided for answering entrance examinations.
- College has an active and functional Placement Cell.
- Members of Alumni association also provide information about vacancies and job opportunities.
- Self-employment is stressed upon by carrying out programmes like the entrepreneurship mela, organized by the Commerce Department and Microbazar by Microbiology Department.

- Field trips to research institutes and industries were organized within and outside the state of Goa.

1.3.3. Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate change, Environment education, human rights, Information communication Technology etc. into the curriculum.

Gender:

The College has made efforts to integrate cross-cutting issues into the curriculum

- Gender Studies is the subject introduced to students of B. A.
- Programmes on empowerment of women, girl child abuse, female feticide, and anti-dowry system are organized under “Committee against Sexual Harassment of Women” and “Women’s cell”.
- The College has in place active “Women’s cell” in place.
- A Ladies Representative from the three faculties is elected to represent the girl students in the students’ council.
- Schemes like “Laadli Laxmi” and “Sukanya Samrudhi” scheme introduced by Government of Goa are availed by lady students of our College.
- The College bus makes regular trips in the morning and afternoon to the main bus stand in Marcela to ensure safety of girl students.
- Security personnel are also present in the College premises to ensure safety.
- The percentage of female students in the College outnumbers the male students which itself is an indicator of gender equality.
- Certificate course on Gender, Media and Mainstreaming in Government policies and programs, is in the offing in the month of November 2016.
- Safety of the students is fortified by means of monitoring the attendance and good rapport between the parent and teachers.

Climate Change:

- Students of the College have a compulsory paper entitled Environmental Studies which deals with the topics like pollution, global warming and climate change.
- Awareness with respect to global warming and climate change and measures to counteract environmental pollution as well are carried out through activities such as Vanamahotsava, collection of plastic bags and plastics, bottles for recycling, use of natural cleansers in sanitization, making and distribution of paper and cloth bags, etc. organization of poster competitions, etc.
- Stress is laid on reduction of carbon footprints by staff and students following car pooling, no paper burning, collection of used batteries. Procurement of paper shredding machine is in process as a kind gesture by the community representative of IQAC.

- Cleaning of streams, beaches, churches and other public places, efforts by microbiology Department to test the water of different wells around the marcel area contributes in controlling the water pollution.
- Effluent testing and treatment of science laboratories is underway.
- Training teachers on minimization of solid wastes and testing of effluents.

ICT:

- The students of the College have a compulsory paper on Information Technology in Semesters I and II.
- Well equipped computer laboratories as well as WIFI connections are also available.
- Teachers have availed of interest free teacher's laptop scheme introduced by Goa Government.
- Students make use of interactive virtual lectures/seminars delivered by faculty from I.I.T.
- Teachers use ICT facility for teaching and students are encouraged to use ICT for presentations etc.

Environmental Education:

- Environmental studies is a compulsory paper in the first year for all streams.
- Anti- garbage drive, collection of plastic bags and bottles.
- Participation in intra and Inter-College competitions on pollution problems, climate change and global warming
- Field and study trips, NSS activities, talks by resource persons to create awareness and practical solutions to the problems.

1.3.4 What are the various value added courses /enrichment programs offered to ensure holistic development of students?

College does not conduct any specific value-added courses; however to ensure the holistic development of students, College organizes various value-added programs dealing with:-

Moral and ethical values:

College conducts various activities like-

- Personality development courses.
- NSS programs.
- Talks by personalities from groups such as Vyakti Vikas Kendra etc.
- Moral and ethical values are inculcated in students.
- Unfair Means Committee is there in the College which deals with malpractices in examinations.

Employability and life skills:

The College promotes employability and life skills by conducting various courses such as:

1. Software development tools and hardware networking and maintenance courses in the I.T sector.
2. Agriculture oriented courses such as mushroom cultivation and courses in organic farming which are especially useful as most of our student come from a rural agricultural background.
3. Lectures on corporate skill development by eminent personalities such as industrialists, academicians, womens' right activists and professionals are also organized.
4. Commencement of the short-term certificate courses simultaneously with the degree course will equip the students with adequate knowledge required to face the world with confidence, add weightage to their credentials and enhance their employability. Keeping this in mind the interdisciplinary course on water analysis is underway by Chemistry Department in collaboration with Goa Pollution Control Board and Microbiology Department is the month of November.

Better career options:

- The College has a Placement Cell conducts campus interviews and monitors the placement of students in private, as well as public sector from time to time.
- The Alumni Association consists of well-placed ex-students who help in placement of former students.
- Faculty also guides and counsels students with regard to career options.
- Entrepreneurship mela helps to motivate students towards self employment.
- Mock interviews are conducted by faculty to create awareness about interview etiquettes.
- Guidance to answer competitive examinations, bank examinations, LIC examinations, etc.

Community Orientation:

Students are made aware of their duties and responsibilities to society through programs such as

- NSS activities.
- Swachh Bharat promotion.
- Rallies to support prevention of suicides.
- Vanamahotsav.
- Plantation drive.
- Collection of plastic bags and bottles for recycling.
- Preparation of cloth and paper bags and distribution in Marcela and Bandora areas.
- Blood donation camps.

- Testing of well water from adjoining villages of Marcela, Cumbharjua and St. Estevam.
- Promotion of gender equality and sensitization of students to issues like violence against women etc.
- The College has an anti-ragging cell which monitors the students and takes appropriate action against the offenders.
- Scholarships are available from Government of Goa for Schedule Caste/ Schedule Tribe & Other Backward Communities (Social Welfare Department and Tribal Welfare).
- Scholarships are also available from Government of Goa for promoting pure sciences.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

- Feedback is obtained from students through student feedback forms, from parents at PTA meetings and from ex-students at meetings of the Alumni Association.
- The suggestions are considered and various measures are initiated such as:
 - ❖ Conducting extra lectures.
 - ❖ Professional counseling facilities are available.
 - ❖ Use of audio visual aids in teaching.
 - ❖ Monitoring of students' attendance and providing feedback to parents.
 - ❖ Distribution of results in presence of parents and guardians.
 - ❖ Training students to face interviews by conducting mock interviews in College.
 - ❖ A student mentoring scheme has been initiated in the College to counsel the students regarding their academic and personal problems.
 - ❖ Students' feedback information is used to improve teaching style and lecture delivery.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment program?

The principal and the Heads of the Departments monitor the various enrichment programs. The IQAC also monitors the various activities conducted in the College both with respect to curriculum and extracurricular activities. The enrichment programmes are organized by Student's Council, N.S.S., associations and clubs like nature club, spektrum club of Chemistry, etc.

1.4 Feedback System:

1.4.1 What are the contributions of the institution in the design and development of curriculum prepared by the university?

- Many of the faculty members of the College are chairpersons/members of Board of Studies and are therefore involved in development of the curriculum.
- They are also involved in restructuring and revising the syllabus of the various subjects.

NAME	WORK UNDERTAKEN IN BOS
Dr. Prabir. K. Rath (Geography)	Chairman, BOS in (Goa University, w.e.f. March/April 2015 till date. Framed the syllabus in Geography for CBCS pattern. Framed the syllabus of undergraduate and post graduate in Geography under Goa University. Worked as an external member of BOS in Geography and framed the syllabus of undergraduate as well as post graduate, M. Phil program of Jiwaji University, Gwalior.
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Dr. Seema Salgaonkar (Political Science)	Drafting of undergraduate and post- graduate syllabus of Goa University
Dr. Isabel Dennis (English)	Member of BOS from 2016-2019. Submitted syllabus as per CBCS in 2016 in English.
Marina Albuquerque (Microbiology)	Member of BOS from 2011-2014. Restructuring of syllabus in Microbiology for undergraduate and post-graduate level.
Dr. Jaison Joseph (Physics)	Member of BOS in 2012 and that of sub-committee of BOS for CBCS syllabus in 2016.

Dr. Dey (Physical Education)	Chairman of BOS in Physical Education from 2011-16. Drafted syllabus for B.P.Ed of Goa University from 2015-16. Member of PET of Mumbai University from 2011-16. Chairperson of B.P.Ed Examination from 2011-16.
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1.4.2. Is there a formal mechanism to obtain feedback from students and stakeholders on curriculum? If yes how is it communicated to the university and made use internally for curriculum enrichment and introducing changes / new programs?

Yes. There is a formal mechanism to obtain feedback from the students about the curriculum through "Exit Questionnaire for graduating students" where the students are asked about the relevance of the courses they are taught.

1.4.3 How many new programs/ courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/ programs?

- Department of Chemistry and Microbiology introduced BSc with 6 units in 2010-11. Earlier only B.Sc (3 units) in the respective subjects was offered, where the scope to pursue postgraduate course was less and employability factor was low.
- The introduction of T.Y. BSc with 6 units i.e. major in Chemistry and Microbiology facilitates the students get to admissions to pursue post graduate courses and get better employment opportunities.
- The Department of Computer Science of the College has introduced a Certificate course in Software Development Tools which is an informative course, creating awareness about cybercrime and how to deal with it.
- Information System & IT Entrepreneurship subject has been introduced in Computer Science Department.
- E-commerce subject has also been introduced for Commerce Stream.
- Department of Commerce organises Entrepreneurship programs/Mela every year to equip the students with the required qualities.
- Department of Computer Science in collaboration with IIT, Mumbai initiated online course on spoken tutorials in IT from 2016 onwards to make the students computer savvy.
- Department of Chemistry proposes to start a Short-term Certificate course in Water Analysis in collaboration with Goa Pollution Control Board and Microbiology Department in the month of November.
- Women's Cell of the College plans to offer a Certificate course on Gender, Media and mainstreaming in government policies and programs in the month of November 2016 to make the students aware of the women empowerment and schemes of the government.

- The Departments of Chemistry and Commerce will introduce Post-graduate programme in Inorganic Chemistry and Commerce respectively in the coming academic year to overcome the constraint of seats in Goa University. The fees will be less than the self financed courses conducted in aided Colleges thereby helping the students from low economic strata to pursue higher studies.
- Two new research centres in Political Science and Konkani language will be established to infuse research culture in students and community around.

Any other relevant information regarding curriculum aspects which the College would like to include.

- ❖ The laboratory administration staff was trained in basic computer skills and operational procedures.
- ❖ Department of Chemistry organized a one-day workshop on “Safety in Laboratory” for the teachers, laboratory staff, and students of various Schools and Colleges of Goa on 30th April 2016. Where the first-aid kits were presented to each institute as token of safety measure to be taken in laboratories.
- ❖ Fire safety personnel from Directorate of Fire and Emergency conducted a mock drill to teach the use of fire extinguishers during emergency. The medical professional explained the various measures to be taken during the emergency time. This workshop training was very successful and received a very good feedback for the same.
- ❖ The workshop on vector borne diseases like malaria, chicken guinea, dengue was organized by medical staff of primary health center Betki in April 2016.
- ❖ Summer camps are organised in our College for the school students from the nearby areas.
- ❖ The NSS camp is organised every year by the program officers for a period of ten days where the students undergo rigorous training for community service; many programs are conducted where students are trained for skill enhancement and personality development.
- ❖ Department of Chemistry in collaboration with the Goa Pollution Control Board has proposed a two-day workshop/training on solid waste management and effluent treatment for the teachers and laboratory staff of schools and Colleges of Goa in the month of December 2016.

CRITERION II

TEACHING, LEARNING AND EVALUATION

2.1. STUDENT ENROLMENT AND PROFILE.

Government College of Arts, Science & Commerce, Khandola, Marcela, Goa has played a pivotal role in providing educational opportunities to the rural areas surrounding it. The College has completed 25 years of its existence by promoting excellence in the field of education. This Institution has earned its reputation for being a premier Institution in this State which is well known for academics, sports and other extra-curricular activities.

Our institution being located in rural area, the students enrolled are from weak socio-economic background. The quality of students we get is usually of the first generation learners with low Intelligence Quotient. After undergoing rigorous training in our College, they are transformed into efficient candidates having remarkable employability. This is reflected at the university exams where the students excel with 100% results.

The students also excel in sports and cultural activities at national and state level and have won accolades to the College in the intra and intercollegiate competitions. The College hence, strives for the holistic development of the students.

2.1.1. How does the College ensure publicity and transparency in the admission process?

Government Higher Secondary School Khandola, also managed by Government of Goa is housed in the adjacent building. This School being pioneered to offer Higher Secondary education in Arts, Science and commerce, facilitates the inflow of maximum students for the degree courses.

The College ensures publicity in the admission process through the following ways:-

- All aspects and stages of the admission procedure are duly notified through the media i.e. local newspapers ensuring that applicants from rural and urban areas are facilitated.
- The admission notice is displayed on the notice board and information is also provided on the College website.
- Publicity is given with the help of outdoor advertising through banners, posters etc. The College handbook gives information

about the circulars, ordinances and statutes of the University concerning the admission process.

- The Alumni and faculty of the College visit the feeding Higher Secondary Schools in the vicinity to interact with the students and explain about various degree courses and its benefits in terms of future prospects.

The College ensures transparency in the admission process through the following ways:-

- Government College of Arts, Science & Commerce Khandola ensures hundred percent transparency in admissions. Transparency is the *sine qua non* for pursuing excellence. Every aspect of the admission process is open to scrutiny. The extent of transparency which the College maintains in this regard may be inferred from the fact that there has been no complaint about any aspect of the admission procedures in the past several years.
- The rules of the Goa University and Directorate of Higher Education, Government of Goa are adhered to.
- The reservation policy of the Government is strictly followed during the admission process. No student is denied admission irrespective of the number of attempts he/she has made to pass the XIIth exam as long as there is availability of seats. It is this basic quality to cater to the needs of the rural areas that makes this Institution unique in the State of Goa.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex, (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv)any other) to various programmes of the Institution.

- The responsibility of organising admissions is entrusted to an Admission Committee of the College headed by the Chairperson and faculty from various Departments.
- The Principal who is the final authority, makes the decisions based on University statutes. Admission forms are available along with the Prospectus. Students need to purchase the form, fill and submit the same in the office at the earliest. Students are given admission to different courses of their choice on the basis of merit.
- The list of the provisionally admitted students is displayed on the notice board of the College. Each student along with his/her parent/guardian is requested to meet Principal/Chairperson/ Members of the Admission Committee. Through this personal interaction, the student is counseled about the choice of subject and her/his academic interests are also understood.

2.1.3. Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the College and provide a comparison with other Colleges of the affiliating university within the city / district.

- Table showing Minimum and Maximum percentage of marks for admission at entry level for each of the programmes offered by the College.

Name of the Programme	Minimum (%) 2012 to 2016	Maximum 2012 to 2016
B.A./B.Sc./B.Com	35%	Distinction

- The minimum percentage of marks for admission at the entry level is 35% and the maximum is Distinction. The College favours an Open Door Policy whereby students are given opportunities to have an access to Higher education as per the availability of seats.

2.1.4. Is there a mechanism in the Institution to review the admission process and student profiles annually? If 'Yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

- Yes. The Admission Committee meets after the completion of the admission process to review and analyse the profiles of the students admitted.
- The outcome of such an effort has been very fruitful as the feedback has helped to make amendments in the admission process, if necessary.

2.1.5. Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the Institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.

- The College caters to all categories of students SC/ST/OBC students are admitted according to the Goa Government reservation policy.

The following table gives the percentage category wise:-

Sr. No	Category	Reservation
1	Scheduled Caste	2%
2	Scheduled Tribes	12%
3	O.B.C.	27%
4	Differently-abled	1%

- **SC/ST:** Government College of Arts, Science and Commerce, Khandola is known for its commitment to social justice. It has gone out of its way to cater to the needs of the students from these communities.
- **OBC:** The College has never discriminated students from any community. This Institution has earned name and fame for being student-friendly.
- **Economically weaker students:** The students who have financial constraints are encouraged to continue their studies by availing assistance or support from Student's Aid Fund and various other schemes like Bursary Scheme and other scholarships by the Government. Some faculty adopt the students and support them financially as well.
- **Women students** are encouraged to seek admission in our College. It is the tradition of the College that the girl students excel in academics, sports and curricular activities. As a matter of fact, women students outnumber men students.
- **Differently-abled:** Students who are differently-abled are accommodated along with the other students. They have also been provided opportunities to take part in extra-curricular activities. **Ramps and Western closets** are constructed and available in the new building to help them.
- **Minority Community:** This Institution is known for a healthy co-existence of the minority community along with the majority community students. A healthy blend a perfect example of unity in diversity.

2.1.6. Provide the following details for various programmes offered by the Institution during the last four years and comment on the trends i.e. reasons for increase/decrease and actions initiated for improvement.

2011-2012

Name of the course	No. of Applications Received		No. of Students Admitted		Demand Ratio
	M	F	M	F	
F.Y. B.A.	12	53	12	53	1:1
S.Y.B.A	03	43	03	43	1:1
T.Y.B.A	03	40	03	40	1:1
F.Y. B.Com	58	74	58	74	1:1
S.Y.B.Com	31	64	31	64	1:1
T.Y.B.Com	19	49	19	49	1:1
F.Y. B.Sc	13	30	13	30	1:1
S.Y.B.Sc	11	36	11	36	1:1
T.Y.B.Sc	10	37	10	37	1:1

2012-2013

Name of the course	No. of Applications Received		No. of Students Admitted		Demand Ratio
	M	F	M	F	
F.Y. B.A	28	66	21	50	1:1.3
S.Y.B.A	08	50	08	50	1:1
T.Y.B.A	05	36	05	36	1:1
F.Y. B.Com	120	108	102	102	1:1.1
S.Y.B.Com	47	65	47	65	1:1
T.Y.B.Com	24	62	24	62	1:1
F.Y.B.Sc.	20	40	18	33	1:1.2
S.Y.B.Sc	12	28	12	28	1:1
T.Y.B.Sc	10	33	10	33	1:1

2013-2014

Name of the course	No. of Application Received		No. of Students Admitted		Demand Ratio
	M	F	M	F	
F.Y. B.A	22	48	22	48	1:1
S.Y.B.A	16	47	16	47	1:1
T.Y.B.A	05	42	05	42	1:1
F.Y. B.Com	55	63	55	63	1:1
S.Y.B.Com	92	95	92	95	1:1
T.Y.B.Com	34	66	34	66	1:1
F.Y.B.Sc	14	39	14	39	1:1
S.Y.B.Sc	12	28	12	28	1:1
T.Y.B.Sc	13	27	13	27	1:1

2014-2015

Name of the course	No. of Application Received		No. of Students Admitted		Demand Ratio
	M	F	M	F	
F.Y. B.A	11	24	11	24	1:1
S.Y.B.A	08	27	08	27	1:1
T.Y.B.A	08	23	08	23	1:1
F.Y. B.Com	15	12	15	12	1:1
S.Y.B.Com	18	22	18	22	1:1
T.Y.B.Com	28	33	28	33	1:1
F.Y.B.Sc	02	36	02	36	1:1
S.Y.B.Sc	07	22	07	22	1:1
T.Y.B.Sc	06	10	06	10	1:1

2015-2016

Name of the course	No. of Application Received		No. of Students Admitted		Demand Ratio
	M	F	M	F	
F.Y. B.A.	09	34	09	34	1:1
S.Y.B.A	08	19	08	19	1:1
T.Y.B.A	08	25	08	25	1:1
F.Y. B.Com	20	44	20	44	1:1
S.Y.B.Com	14	11	14	11	1:1
T.Y.B.Com	29	25	29	25	1:1
FY B.Sc	21	87	21	87	1:1
S.Y.B.Sc	02	15	02	15	1:1
T.Y.B.Sc	07	15	07	15	1:1

- There is no decline in Demand Ratio.
- Actions initiated for improvement-
- The faculty of the College visits the Higher Secondary Schools to give general orientation about the courses conducted by the College.
- The Alumni also gives full information about the courses to the neighbouring Higher Secondary Schools.
- Wide publicity about the courses is given through social networking sites.
- Students are given flexibility in the payment of the fees.
- A Scholarship Committee is appointed to ensure that these students can avail of the schemes, benefits and scholarships provided by the Government of Goa to mitigate financial constraints.
- Remedial classes, personal counselling through Mentoring Cell ensure that the dropout rate is minimized.

2.2. Catering to Student diversity.

2.2.1. How does the Institution cater to the needs of differently - abled students and ensure adherence to Government policies in this regard?

- Admission to the College is open to all categories of students. However, the number of differently-abled students seeking

admission to the College is very small. The College has always geared to meet the special needs of the differently-abled students to ensure that they are comfortable.

- In compliance with the norms of the State Government a ramp has been provided in the new building. Western closets are constructed in the building to help them. When such students are identified at the time of admissions utmost care is taken to see that lectures are delivered in classrooms on the ground floor.
- In keeping with the University norms, special rooms are allotted for such students for answering exams on the ground floor.
- The teachers and students go out of their way to show their concern and special care towards such students. Other students are also requested to help such students and integrate them with the group.
- Library caters to these students on personal level by providing them with necessary books, issue of Library cards, etc.
- Provision of wheelchair is made for the differently-abled or casualty-stricken student for transit, from one block to another.

2.2.2. Does the Institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'Yes' give details on the process.

- Yes, though our students are first and second generation learners from rural villages, they are enthusiastic to learn new skills and receptive towards the imparted knowledge.
- The Teachers seek suggestions from students on the nature of courses/programmes/competitions they would like to participate.
- The Admission Committee counsels the students at the time of admission on the selection of subjects.
- The teachers revise the elementary concepts of the subjects at the beginning of the academic year thereby providing the students with the necessary skills needed in the respective subjects of the course.
- The College re-opens with the formal address of the Principal. The Departmental orientation boosts the morale of the students.
- The College Librarian conducts the Orientation programme to help the students to avail of the Library facilities.

2.2.3. What are the strategies adopted by the Institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add-on/Enrichment Courses etc.) to enable them to cope with the programme of their choice?

- The College strives to see that the student's enrolled are comfortable with the programmes of their choice.
- Various Departments conduct revision practicals to familiarise them with instruments in the laboratory at the entry level before the commencement of the actual practical classes. Teachers also provide counselling and efforts are made to solve the students difficulties after class hours.
- Bridge course is conducted by the Department of Mathematics which enables the students to cope up with the programme.
- Remedial classes are conducted by Department of Chemistry to clear the basics in Chemistry subject at F.Y. level.

2.2.4. How does the College sensitize its staff and students on issues such as gender, inclusion, environment etc.?

- The College has different Committees i.e. viz., Women Cell, Prevention of Sexual Harassment Committee, (SC/ST) Cell, Nature Club to address and sensitize students to gender, inclusion and environment.
- The percentage of female students in the College outnumbers the male students which itself is an indicator of gender equality.
- Imbibing gender equality, inclusive development and environmental conservation is of great importance to this Institution. These above respective Committees/Cells/Clubs conduct various activities i.e. viz. poster competition, slogan writing, talks by eminent personalities and NGO's to sensitize the staff and students on issues such as gender.
- The first year students of all faculties have to study a compulsory paper on Environment Studies. Gender studies is a subject introduced to students of B.A.
- The SC/ST Cell of the College conducted talks for the students belonging to this category to sensitize them of the various facilities and schemes that are available to them. Even during the N.S.S. Camp talks by eminent personalities have helped to create an awareness about inclusion, environment and gender equality among the students.
- Programmes on empowerment of women, girl child abuse, female feticide and anti-dowry system are organized under "Committee against Sexual Harassment of Women" and "Women's Cell".
- A Ladies Representative from the three faculties is elected to represent the girl students in the students' council.
- The female students are trained for Taekwondo, Karate, Boxing by the professionals. Our girls represent the university in these games and bring laurels to our College. The reports have been reflected in the local dailies.

- Talks by professionals in the women related issues, gender, media are held regularly so that the women are updated on these issues.
- Schemes like “Laadli laxmi” and “Sukanya Samrudhi” introduced by Government of Goa are availed by lady students of our College.
- The Nature Club conducts various activities - ‘Vanamahotsova’ to create an awareness to grow more trees. The Alumni has conducted a tree plantation drive to sensitise the staff and students on environment conservation.
- Research Cell conducted Seminar on ‘Environment: Issues, Concerns and Alternatives’ and the Silver Jubilee Celebrations Committee conducted a State-Level Workshop for N.S.S. Volunteers and Programme Officers of the Colleges in Goa on ‘Swachha Bharat Nital Goem: Mission Inspired by Patriotism’.
- The Student’s Council conducts several activities like poster making essay writing and elocution to sensitize the above issues. "Jubilations" is the funweek students enjoy the most and have penchant for, every year. During this time a plethora of activities, competitions are organized on themes of various cross cutting issues like save trees, save girl child, Anti-terrorism, Patriotism etc.
- Rallies are also conducted to sensitise the students to save water, stop the use of plastic, etc. The N.S.S. conducts several activities to sensitize the students to conserve the environment and community service.
- The Dept. of Political Science also conducts rallies, street plays etc. to sensitise the students e.g. Beti Bachao Beti Padhao.
- The College bus makes regular trips in the morning and afternoon to the main bus stand in Marcela to ensure safety of girl students.
- Security personnel are also present in the College premises to ensure safety.
- Certificate course on Gender, Media and mainstreaming in Government policies and programs is in the offing in the month of November 2016.
- Short term certificate course on Water analysis by the Chemistry Department in collaboration with Goa Pollution Control Board and the Microbiology Department is underway.

2.2.5. How does the Institution identify and respond to special educational/learning needs of advanced learners?

- Advanced learners are identified after formative and summative assessment.

- Advanced learners are also identified by the Institution during the conduct of mock quiz, debates, elocution, practical viva etc. Essay competitions are also conducted to identify learners who have a flair for writing.
- The advanced learners who are identified are counseled, given extra coaching and provided opportunities to take part in competitions i.e. Inter-collegiate, state and national level.
- The Departments of Physics, Chemistry and Microbiology after identifying advanced learners have encouraged students to take up inter-disciplinary projects.
- The efforts put in by the advanced learners is recognised and appreciated by the Institution. Such learners are felicitated, awarded prizes and scholarships. Prizes are instituted by the teachers, Industries, alumni and PTA for the toppers on the College Annual Day etc. This motivates the students to excel in Higher Studies.

2.2.6. How does the Institute collect, analyse and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided?)

- The students at risk of drop out are identified by the Principal and other faculty members through the mechanism of mentoring where the rapport between the student and teacher is built.
- After several meetings the students who are potential drop outs are advised to seek the help of concerned teachers.
- Students from the economically weaker sections are guided to apply for various schemes like **Bursary, Student Aid Fund**. They are given the benefit of paying the fees within a certain stipulated period. Book Bank facility is provided by the Library. All these measures have helped to minimise the dropout rate.
- Slow learners are given guidance and extra coaching to clear their repeat exams. Parents of slow learners are guided by the faculty members from time to time.
- There is a counselor appointed by the College who takes care and helps the students to overcome psychological problems.

2.3. Teaching Learning Process.

2.3.1. How does the College plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print etc.)

- The University lays down the academic schedule for all the affiliated Colleges. The College has to plan and organize the teaching, learning and evaluation schedules based on the academic schedule set by the University.
- The Time Table Committee and Examination Committee is constituted at the beginning of the academic year to plan the teaching and evaluation schedules.
- The Prospectus and the Academic Calendar gives a detailed information regarding the instructional days for teaching learning which are fixed. Information pertaining to Intra Semester Assessment (ISA), Semester End Examination (SEE) and evaluation schedules is also reflected in the Academic Calendar.
- Calendar of events with relevant information is also displayed time and again for the benefit of the teacher and students. The faculty implements a well drawn teaching plan keeping in mind other events and extra-curricular activities (i.e. seminars, workshops, sports events etc.) which are organised in the College.
- The above information is reflected in the College website for the access of students and parents.
- The syllabi which is framed by the Board of Studies appointed by the University is implemented threadbare by all the Departments.
- Elaborate planning is done by teachers to meet the deadlines and complete the syllabus.
- The assessment for the semesters V and VI is done at the level of university where the examiners as well as assessors are appointed by the controller of examination the answer keys in the form of evaluation blue print to the question papers set is mandatory to be submitted to the examination section of the Goa University.

2.3.2. How does IQAC contribute to improve the teaching, learning process?

- The College has constituted the IQAC as per the guidelines of the NAAC. The following are the members of the IQAC Committee-

Principal/ Offg. Principal- GCASCK	Chairperson
Principal Bhaskar Nayak Director, DHE, Porvorim.	Management Representative
Mr. Vithal S. Sukhthankar Chairperson, I.T. & Office Management Faculty, GIM, Sanquelim	Member
Mr. Carlos Fernandes Curator, Goa State Library, Panaji	Member
Mr. Prashant Chodankar Associate Professor of Physics, GCASCK	Member
Dr. S.V. Sukhthankar Associate Professor of Commerce, GCASCK	Member
Dr. T.S. Dey Director of Physical Education & Sports, GCASCK	Member
Dr. Isabel Dennis Associate Professor of English, GCASCK	Member
Ms. Sujata Gaonkar Associate Professor of Computer Science GCASCK	Member
Ms. Ranjana Sawaikar, Assistant Professor of Commerce, GCASCK	Member
Ms. Vasanti N. Marathe, Head Clerk, GCASCK	Member
Mr. Shivraj Kapdi, Accountant, GCASCK	Member
Mr. Swapnil Kamat, President, Alumni Association, GCASCK	Member
Mr. Siddharth Palang Marcela- Goa	Community Representative
Mr. Kashinath Naik Marcela- Goa	Industry Representative
Mr. Vithal Navelkar Devlay, Marcela, Goa	Ex- Librarian, Goa University Expert.
Ms. Anandi Reddi T.Y.B.Sc., GCASCK	Students Representative
Ms. Urvi S. Ranade T.Y.B.Com., GCASCK	Students Representative
Dr. Seema Salgaonkar Associate Professor of Political Science, GCASCK	Co- ordinator

- The IQAC plays the role of an advisor of the College and contributes to the improvement in teaching and learning process in the following ways-
- Academic counselling and conduct of special examination for advanced learners to make them perfect in writing University exams.
- Monitoring the activities of the various Committees of the College for its better performance.
- Encouraging teachers to participate and present papers at National, International Conferences, Seminars, Workshops and to publish their papers in reputed journals.
- Up-gradation and digitization of Library with open access system in consultation with the Library Committee.
- Motivating the faculty to organize Seminars, Workshops, Faculty Development Programmes and specific activities for the students.
- Promoting research among the faculty to undertake major and minor research projects and also to pursue Ph.D.
- To give suggestions to improve the teaching-learning process.
- Performance appraisal of the faculty by the students.
- Involving the members of IQAC from community and other professional institutes for suggestions and required actions like control of pollution in and around the College, signing of MOU.
- To bridge the gap between the industries, Research institutes and academics by setting up collaboration between the College and these bodies.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

- Student-centric education through appropriate methodologies facilitate effective learning. The following are some of the significant modes adopted in this regard-

Interactive learning

- Group discussions are held to have interactive learning. Field trips, visit to local bodies e.g. Panchayat, industrial visits, institutional visits and study tours are conducted. The teachers employ interactive and participatory approach to create a feeling of responsibility in learning and make learning a process of construction of knowledge.
- Guest lectures are also organised on topics related to the curriculum.

- The students participate in various competitions organised by the Spektrum Club of Chemistry Department like quiz, poster competition, cooking, flower arrangement, two minutes speech i.e. Ex-Tempore where knowledge of Chemistry is explored in day to day life.
- The students represented the College for the event “Kynesis” organized by Chowgule College. The poster competition on the theme Chemistry: Yesterday, Today, Tomorrow, Action reaction, research based competition and oral presentation on nanotechnology won the first place and the winner’s trophy was awarded based on the overall Best performance. The interaction between the judges and the students was commendable.
- Students of semester VI every year, participate in the quiz conducted by Association of Chemistry teachers Goa, poster and oral presentation competition on T.Y. B.Sc project organized by Goa University and bring laurels to the Department.

Independent learning

- Independent learning is encouraged through assignments required for Intra Semester Assessment (ISA) based on e-learning i.e. digital story writing by English Department.
- PowerPoint Presentations, posters, wall papers, models are the different modes of internal assessment.
- The reference work and preparation for examination and project papers is encouraged by the faculty.
- Movies and YouTube videos are screened to visualise the knowledge and skills as required by the curriculum.
- Demonstrative experiments and use of models for understanding certain concepts like stereo Chemistry, solid state chemical bonding and symmetry in classroom teaching are encouraged.
- E-learning in groups through Whatsapp where the teacher is the administrator of the group and shares the important knowledge. Different sites on Facebook on the particular subject are recommended to students for reference. Verification of this is done in the daily assessment.

Collaborative learning

- The College has collaborations with following agencies, research institutes, industries, financial and management institutes and educational centers like NIO- Dona Paula, NCAOR- Vasco, Goa University- Taleigao Plateau, ICAR-Old Goa, BARC-Mumbai, GIPARD-Old Goa, GIM- Sanquelim Goa, Syngenta-Corlim, GPCB-Panaji, DST-Saligao, Goa, Where the students can access the Library and laboratory facilities.

- Students of political science Department get live experience to witness the assembly sessions during the during the winter and summer proceedings.
- The support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students are as follows:-
 - Well equipped and spacious Library with WI – FI connectivity. U.G.C. resource centre for students and teachers to do web – searching.
 - Classrooms are equipped with LCD’s with WI-FI connection.
 - Well-equipped laboratories with latest instruments and equipments.
 - Well-equipped computer laboratory with internet facility.
 - Committees, Clubs, Cells, associations such as Nature Club, Health Club, Movie Club, Red Ribbon Club, Abhyas Mandal (Literary Association), Science Association, Spektrum Club of Chemistry Department, Commerce Association, Women Cell provide a platform to the students along with the teachers to take up activities which facilitate interactive, collaborative, and independent learning.

2.3.4. How does the Institution nurture critical thinking, creativity and scientific temper among the students to transform them into life – long learners and innovators?

- The Institution has adopted the following measures to nurture critical thinking, creativity and scientific temper among the students:-

Critical Thinking

- Installation of the Students Council on democratic principles which shoulders the responsibility of organising and conducting various activities for the students.
- Questions are framed to enhance the logical thinking and reasoning abilities.
- Involvement of the students in the learning process is encouraged via classroom seminars and discussions, participation in the Inter-Collegiate competitions, workshops, orientation programmes etc.
- Critical thinking students is enhanced by making of the students to write scientific articles in the spectrum gallery of the Chemistry Department as well as in College magazine.

Scientific Temper

- The activities carried out by Department of Chemistry under spectrum Club create interest in students about Chemistry in everyday life and help in nurturing the scientific temper.
- The students of Chemistry represent the university quiz and project presentation every year and win accolades to the College. Competitions like Action Reaction, the display of innovative reactions inculcate scientific temper in students. These competitions have helped the students to hone their research skills.

Creative Thinking

- Students as members take up the responsibility of organising and conducting various activities under Nature Club, Movie Club, Red Ribbon Club, Health Club, Women Cell, Science Association, Abhyas Mandal, N.S.S., Spektrum Club of Chemistry.
- Students are motivated to contribute their creative writings in the College magazine "**Mahashala**".
- Competitions like EX-Tempore where the students have to speak on any topic in daily life relating to Chemistry, induces creativity and make them learners.
- Training on mushroom cultivation at ICAR- old Goa and study tour at BARC for interactive research program by microbiology Department, Consumer melas organized by commerce Department, Course on banking and organic farming by Economics Department, Web development courses by computer Science Department Innovative courses by physics Department on circuits designing and photography, Unfathoming organic Chemistry in daily chores like automobiles, emotions, fragrances, etc. Exhibiting aspects of physical Chemistry through reactions and making periodic table lot more easier through innovative ideas reflect the desire of the institution to nurture the talent of students in various fields.
- Theoretical concepts taught in the classroom are validated in the laboratories through experiments and this enhances critical thinking, scientific temper and creativity.
- All the above competitions, training sessions, entrepreneurship programs helps to transform the students into lifelong learners and innovators.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? E.g. Virtual laboratories, e-learning resources from National Programme on Technology, Enhanced Learning (NPTE) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education etc.)

- The College has made available the following facilities and technologies for effective teaching.
- Well-equipped and spacious Library with N-List facility and WI-FI connectivity, U.G.C. resource centre for students and teachers for web-researching.
- Classrooms are equipped with LCD's with WI-FI connection.
- Desktops, laptops and software are provided as per the requirement.
- Video presentation of genetic techniques NCBI, BLAST for sequencing.
- Tally- package, e- accounting, e- banking.
- Audio - Visual aids, effective teaching through art films, Digital India on-line exams etc.
- Origin software is used in Physics and Chemistry Departments by the students for assignments and projects. Other softwares used in Chemistry Department are Chem-sketch, Molecular formula determination etc.
- Programmes such as web Development in Asp.Net, PHP, MySQL are conducted by computer science Department. Online courses like spoken tutorials are initiated by the Department in collaboration with IIT, Mumbai.

2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

- Students and faculty are exposed to advanced level of knowledge and skills in the following ways:-

Faculty:-

- The faculty regularly attends Orientation and Refresher Courses as part of career advancement.
- Faculty Development Programmes are conducted by the College to equip teachers with latest trends in the field of education.
- Faculty apply for grant of funds to various research bodies for research based projects.

- Faculty members attend Seminars, Workshops, Lectures, etc. organised by the College and other Institutions at the State, National and International level and present Papers.
- The faculty members publish research papers in National and International journals and in edited books.
- A joint project between microbiology and physics Departments on air pollution is underway.
- A certificate course between Chemistry and Microbiology Departments on water analysis is in the offing.

Students:-

- The Project Paper at final year helps to develop base for research among the students. The blended learning is enforced through interdisciplinary approach e.g. Chemistry Students study anti-microbial activity of the synthesized compounds in microbiology Department.
- Field trips/industrial visits/institutional visits/study tours are also organised.
- Guest lectures are organized by various Departments to expose staff and students to advanced level in their subjects.
- Lecture on Orientation Programme on Practical Banking was organised from 22nd April to 30th April 2013 and lecture on Money and RBI by Asst. Manager, RBI, Panaji was organised in line with the above objective.

2.3.7. Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling / mentoring / academic advice) provided to the students?

- The Principal and faculty members are available for guidance, consultation and counselling to the needy students. The faculty members also interact with the parents when the situation arises.
- The alumni of this Institution approach the faculty members for the required academic, career and personal guidance.
- The Counselling Cell of the College is active with a professional counsellor, Mr. Adolph M.D. Castellino in the year 2014-15.

Number of students who benefitted from his guidance are as follows:

Year	Frequency of visit	Clients		
		Males	Females	General
2013-2014	Once a week	05	09	01
2014-2015	Once a week	04	13	03
2015-2016	Twice a week	02	11	01

The frequency of visit depends on the gravity of the issue faced and discussed.

- College has engaged the services of Ms. Joan Fernandes as the counsellor for the academic year 2016-17.

2.3.8. Provide details of innovative teaching approaches / methods adopted by the faculty members during the last four years? What are the efforts made by the Institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

The Innovative teaching approaches/methods adopted differ as per the streams. Some of the methods adopted are as follows:-

- Interactive teaching, class seminars, discussions, practical problem solving, assignments, case studies and projects involving exposure to work environment.
- Digital story writing undertaken by the Dept. of English. The Dept. of Hindi makes use of media to prepare advertisements. Department of Marathi screen movies for the students in alignment with the curriculum.
- The Department of Physics use innovative methods to explain the concept of series and parallel connections in electricity by correlating the different components of the circuit with flower garlands.

Department of Chemistry organises various programs under Club "Spektrum to create interest in students to learn Chemistry by relating it to everyday life.

- Faculty also make use of models to teach certain topics like stereo chemistry, symmetry, solid state and chemical bonding.
- Pre-laboratory exercises introduced this academic year helps to nurture their interest in practical Chemistry.
- Microbiology Department uses the method of streaking in a creative way for inoculating the cultures which results in various designs.
- Industry-based and field-based projects help the students to get acquainted with field surveys. Students get an opportunity to

interact with the officials of various organisations/institutions which help them to develop self-confidence and improve their communication skills.

- The efforts made by the Institution to encourage the faculty to adopt innovative approaches.
- Well equipped laboratories in Physics, Chemistry, Microbiology, Computer Science, Geography, Psychology subjects.
- Classrooms are equipped with LCD's with WI-FI connection.
- Well equipped and spacious Library with WI - FI connectivity. U.G.C. resource centre for students and teachers.
- The impact of such innovative practices on students learning can be as follows -
- Developing and enhancing soft skills of students have resulted in highly refined individuals who shoulder responsibility in society.
- Innovative methods in research has oriented the minds of students into pursuing masters in their respective subjects thereby increasing the calibre of the students.
- Enhanced independent and blended learning among students has helped them to work in interdisciplinary project with an increased team spirit.
- All the above efforts to introduce innovation in teaching have helped the students in winning various prizes at state level and bring laurels to College. Last academic year Kynesis trophy was won by the Chemistry students of the College.

2.3.9. How are Library resources used to augment the teaching - learning process?

The Library is well equipped with all the recommended books as per the curriculum in all the subjects headed by dynamic librarian.

- The Library has independent website www.gcascklibrary.webs.com which is also part of College website (www.khandolaCollege.edu.in).
- The Library has subscribed to N - List services for students and teachers from 2012-2013 and 2016 -17 onwards wherein INFLIBNET and e-Granthalaya are accessible to students.
- Apart from College Library, the staff and the students have the access to Government Central Library in Panaji and Goa University Library to update and enhance their level of knowledge.
- The Library Committee monitors the functioning of the Library. Periodic meetings are held to discuss on improvement of

Library facilities, proper selection of books, journals, magazines and other periodicals, CDs, Book Bank facility for students etc.

- The Library conducts Orientation programme for the newly enrolled students to give them information about the collection of books, facilities and services available.
- The Library is well equipped and spacious with WI - FI connectivity, U.G.C. resource centre for students and teachers with Internet facility is provided.
- The Library practices the 'Open Access System' to staff for effective teaching-learning. Book Bank facility is available to the needy students.
- Attendance of the students could be cross-checked via Gate register maintained by the Library.
- Library subscribes to various research journals in all the subjects which helps the students to carry out advanced studies.
- The Library has a rare collection of approximately 1000 English Literature Books which are made use of by the Students
- "Best Library User award" instituted by the librarian of the College on the basis of Library records.
- A lecture on "Open Access to Knowledge and Information" was organized for the students and teachers on 06.12.2014.
- Library facility is accessible to the ex-students of this College to prepare themselves for various competitive exams.
- In order to improve the functioning of the Library, suggestion box is kept in the Library. The box is opened every fifteen days and the grievances are acted upon.

2.3.10. Does the Institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'Yes' elaborate on the challenges encountered and the Institutional approaches to overcome these.

- As per the University guidelines the teachers plan the curriculum at the beginning of the academic year. This enables the teacher to complete the curriculum in a systematic manner.
- In case lectures are missed on account of activities such as Seminars, meetings, programmes and other activities they are compensated by engaging extra lectures.
- The College strictly adheres to the schedule to ensure that time allotted for academics is not lost.
- When any faculty goes on leave there is intra Department adjustment of lectures and practicals.
- A student missing regular practicals on account of sickness or representing College for sports and curricular activities, is allowed to carry out the experiment during repeat practicals.

2.3.11. How does the Institute monitor and evaluate the quality of teaching learning?

- The evaluation of teaching and learning is monitored by Teacher Feedback Committee constituted by the Institution. The students evaluate the teachers based on the feedback forms. In case of adverse remarks, the concerned is guided by the principal for improvement.
- The Semester End Exam results reflect the quality of teaching/learning as well.
- A suggestion box is installed outside the principal's cabin where students have total freedom to give their feedback or complaints.
- There is a Grievance Redressal Cell which monitors the grievances of the students and the staff.
- The College adopts an open-door policy and the students have discussions with the Principal/faculty personally or through the Students Council.
- The performance of the students at the university level exams as well as various competitions at state level gives the evidence of perfect teaching-learning processes.

2.4. Teacher Quality.

2.4.1. Provide the following details and elaborate on the strategies adopted by the College in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

As on 4th May, 2016 -

Highest Qualification	Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	
Permanent Teachers	9	13	1	8	31
Ph.D.	7	8	-	2	17
M.Phil.	2	3	-	-	5
P.G.	1	4	1	5	11
Temporary Teachers	-	-	3	5	8
Ph.D.	-	-	-	1	1
M.Phil.	-	-	-	1	1
P.G.	-	-	3	4	7
Professional	-	-	-	1	1
Part-Time Teachers	-	-	1	13	14
Ph.D.	-	-	-	-	-
M.Phil.	-	-	-	-	-
P.G./L.L.B./ C.A.	-	-	1	13	14

1. Recruitment procedure

- Departmental workload is calculated for the next academic year and communicated to the Directorate of Higher Education. The process of recruitment is centralized and applications are received online and after scrutiny the suitable candidates are interviewed. For the post of Assistant Professors on contract/lecture basis in all five Government Colleges.
- Appointments for lecturers **on regular basis** are made by the Goa Public Service Commission. The posts are advertised in the local dailies and national periodicals. The website of Directorate of Higher Education carries the rules and regulations. Applicants who are eligible are interviewed by the expert panel constituted by the Goa Public Service Commission.

2. Retention of faculty

- The Institution works hard to retain its faculty by providing a number of incentives-
- Since ours is a Government College, the job comes with the tag of security measures like pension after retirement, Gratuity etc.
- Big leap in the pay as per the pay commission is lucrative enough to continue in the Government service.
- The College provides conducive academic environment to promote academic research.
- Extension of services after retirement is provided for the competent, well deserving teacher.
- The Directorate of Higher Education has instituted **best teacher prize** for the senior teachers with commendable contribution in teaching and research. The awardee of this prize is given the facility of extension of their services for a period of one year.
- The teachers are facilitated to undertake Ph.D. and further research by availing UGC FIP and Sabbatical leave. They are also encouraged to take up research projects, participate in summer Schools, professional trainings, seminars, conferences, workshops, orientation refresher courses, etc.
- Teachers are deputed to attend State/National/International Level Seminars, workshops and conferences.

2.4.2. How does the Institution cope with the growing demand/scarcity of qualified senior faculty to teach new programmes, modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics, etc.)?

Provide details on the efforts made by the Institution in this direction and the outcome during the last three years.

- The existing qualified teachers take care of the growing demand of new technology by updating themselves through Library references, internet, etc. and also by attending workshops, conferences, short-term courses, training programmes, etc.
- Arrangements are also made to get guest faculty for such courses for the benefit of the students.
- During the past three years, five permanent faculty have been recruited by the Government through Goa Public Service Commission.
- Depending upon the specialization, teacher on contract basis have been appointed as and when required.
- The College has Department of Microbiology and I.T. and has been endowed with efficient senior faculty members with research background to cater to our students.

2.4.3. Provide details on staff development programmes during the last four years and elaborate on the strategies adopted by the Institution in enhancing the teacher quality.

- The teachers take initiative to learn and keep abreast of the latest developments, to innovate, continuously seek improvement in their work and strive for individual and institutional excellence.

a) Nomination to staff development programme-

Year	Refresher Courses	HRD Programmes	Orientation Programmes	Staff training conducted by the University	Staff training conducted by other Institutions	Summer / Winter Schools, Workshops etc.
2012-13	-	2	-	-	-	2
2013-14	-	2	-	2	1	3
2014-15	-	-	-	-	-	2
2015-16	1	-	2	-	-	4

b) Faculty training programmes organised by the Institution to empower and enable the use of tools and technology for improved learning.

Year	Resource person	Topic
<u>2012-13</u>	Mr. Abhijeet Surve.	'Demonstration on use of LCD Projector using WI-FI connection'
<u>2013-14</u>	Dr. Seema Rath	'Talk on Paper setting / Evaluation to the new recruits'
<u>2014-15</u>	Mr. Shatranjan Shahu (NIO Scientist).	'Open Access to Knowledge and Information' for the teachers and students

2014-15	Mr. B. G. Gupta, and Mr. Prasanth Menon.	e- Governance and 'Government Project Life Cycle'
2015-16	Dr. Vikas Pissurlekar	'Choice Based Credit System'
2015-16	Dr. Gaonkar, Ex-Principal of Chowgule College	'Nuances of NAAC: How to write a NAAC Report'

c) **Percentage of faculty-**

Invited as resource persons in Workshops, Seminars, Conferences organized by external professional agencies participated in external Workshops, Seminars, Conferences recognized by national/ international professional bodies

* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies

Year	Members invited as external experts	National		International	
		Participated	Paper Presented	Participated	Paper Presented
2012-13	12%	6%	10%	3%	3%
2013-14	11%	11%	10%	3%	4%
2014-15	12%	11%	11%	3%	3%
2015-16	9%	9%	9%	5%	5%

2.4.4. What policies / systems are in place to recharge teachers? (E.g. providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialised programmes industrial engagement etc.)

- The Institution encourages the teachers to submit their respective research proposals to various Government and non-Government agencies to support their research. The College sanctions FIP leave. College deputed the faculty to participate and present research papers in seminars and conferences.
- FIP leave to the faculty

Year	Number of years	Name of the Faculty
17/06/2010 to 17/11/2011	One and Half years	Dr. Pravina Kerkar
23/11/2009 to 23/11/2011	Two years	Dr. Dilecta D'costa

29/06/2013 to 15/06/2015	Three years	Ms. Fatima D'souza
12/08/2013 to 13/08/2015	Two years	Ms. Radhamani Divaker
15/03/2012 to 15/03/2014	Three years	Dr. Jaison Jacob

- The Institution also grants sabbatical leave to the faculty to undertake Post – doctorate research.
- Following Faculty availed Sabbatical leave

Year	Number	Name of the Faculty
15.06.2013 to 19.07.2014	One	Dr. Beena Vernekar
02.07.2015 to 30.06.2016	One	Dr. Seema Rath

- Teachers can avail grant for research under the “scheme for Promotion of science education” by Directorate of Higher Education as under:-

A) Support For Patents

Any student or a teacher who files a patent shall be entitled to receive a grant of Rs. 10,000/-. Further, if this patent is achieved / granted he/she shall be entitled to receive Rs. 40,000/-. If any of these patents are converted into commercial ventures, an amount of Rs. 1.00 lakhs shall be given as an incentive

B) Support For Exhibition Of Research Based Projects

Any recognized institution which plans an all Goa Exhibition of research based projects shall be entitled to receive a maximum grant of Rs. 1.00 lakhs towards prizes and organization of exhibition.

C) Support For Project Proposals

Any College Teacher who submits a research project related to Science and Technology as applicable to Goa shall be eligible to receive grants under this scheme. The amount granted is five lakh rupees for the duration of three years.

2.4.5. Give the number of faculty who received awards/recognition at the State, National and International level for excellence in teaching during the last four years. Enumerate how the institutional culture and environment contributed to such performance/achievement of faculty.

Nil

2.4.6. Has the Institution introduced evaluation of teachers by the students and external Peers? If Yes, how is the evaluation used for improving the quality of the teaching – learning process?

- Yes. The students evaluate the teachers on various parameters. The feedback collected from the students is analysed by the individual teacher and attempts are made by the teacher to improve in those areas where the feedback is not satisfactory.

2.5 Evaluation Process and Reforms.

2.5.1. How does the Institution ensure that the stakeholders of the Institution especially students and faculty are aware of the evaluation process?

- The evaluation process is briefed in the College prospectus.
- It is communicated to the faculty during the staff meetings. Notices, circulars etc. pertaining to evaluation are circulated and displayed time and again on the notice board.
- At the beginning of every academic year, the Principal explains the evaluation process during the formal address to the students.
- Ordinances and statutes related to the evaluation process as laid down by the Goa University are included in the Prospectus. Notices and circulars regarding the evaluation process are displayed on the Students Notice Board.
- College website carries all the relevant information pertaining to evaluation process.

2.5.2. What are the major evaluation reforms of the University that Institution has adopted and what are the reforms initiated by the Institution on its own?

- The pattern of evaluation as laid down by the Goa University is followed by the College. The Semester system is followed wherein Intra-Semester Assessment (ISA) 20% and Semester End Examination (SEE) 80% are conducted.
- The following are the reforms initiated by the Institution on its own to test Internal Semester Assessment (ISA) -
 - Assignments
 - Role plays
 - Presentations
 - Making models
 - Wall papers/Posters
 - Group activity/Pair work

- Field trips
- Study Tours
- Viva
- Demonstration reactions
- Studying chemical reactions in daily processes
- Open book examination
- Dress code is made mandatory by the commerce Department for project viva -voce examination at the university level.

2.5.3. How does the Institution ensure effective implementation of the evaluation reforms of the University and those initiated by the Institution on its own?

- Various Committees such as ISA Committee, Examination Committee, Unfair Means Committee and Grievance Committee are constituted to ensure effective implementation of the evaluation reforms of the University.
- The following are the Committee details-

I. Intra Semester Assessment Monitoring Committee

Dr. Rajashri Mordekar	-	Chairperson
Ms. Varada Kalas	-	Member
Ms. Marina Albuquerque	-	Member
Ms. Radhamani Divakar	-	Member

Duties:-

1. To co-ordinate conduct of ISAs and prepare the consolidated Results.
2. To receive the final ISA marks before the last date and to hand them over to Exam Committee.
3. To ensure that all the students are assessed within one week and absentees are re-assessed based on production of authentic evidence of absence.
4. To make inventory of the required stationery well in advance.
5. To guide the students regarding ISA related matters.

II. Examination Committee

Dr. Pravina Kerkar	-	Chairperson
Ms. Ranjana D. Sawaikar	-	Member
Ms. Gracy Fernandes	-	Member
Ms. Varda Kalas	-	Member

Duties:-

1. To successfully conduct the Semester End Examinations and prepare the Results.

2. To co-ordinate with the ISA Committee for smooth conduct of ISA Tests.
3. To ensure that the mark lists are submitted by the lecturers to the Examination Section by due dates and declare the results in time.
4. To make inventory of the required Stationery well in advance.
5. To refer cases of malpractice in the examination to the Unfair Means Inquiry Committee/Examination Grievances Committee for necessary action.

III. Unfair Means Inquiry Committee

Dr. Lucas Miranda	-	Chairperson
Ms. Marina Albuquerque	-	Member
Ms. Radhamani Divakar	-	Member
Ms. Yanita Palkar	-	Member

Duties:-

1. To examine the cases of malpractices by the students in the examinations, if any and recommend course of action to be taken against defaulting student(s).

IV. Grievance Committee

Dr. P.K. Rath	-	Chairperson
Ms. Anita Raicar	-	Member

Duties:-

1. To attend to the general grievances of the students, public (related to the College), staff and suggest and record redressal in co-ordination with principal and staff within the framework of rules.

2.5.4. Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

▪ Formative assessment

- Two ISA's are conducted every Semester. ISA carries 20% of maximum marks in a subject. This checks the performance and attendance of the students time and again.
- The system of ISA as incorporated in the University curriculum gives to the students the benefit of continuous learning of the topics in the respective subjects. This also ensures better performance in the examination and relieves the burden considerably during the end of semester exams.
- Monthly tests are conducted at the Departmental level. Personal attention is given to slow learners to decrease the drop-out rates. Oral assignments and quiz form part of the

assessment. Assignments in Accounting and Advance Accounting are conducted. In Physics (Electronics) paper students are motivated to take up mini – electronic projects as second ISA.

- The students are given a choice for selection of topics for ISA. This makes a student confident about his/her performance.
- The students who secure fewer marks are counselled and accordingly the performance of the student is improved.

▪ **Summative assessment.**

- The SEE is conducted at the end of the Semester and covers the entire syllabus prescribed for that Semester. It carries 80% of the maximum marks in a subject. SEE from Semester I to IV are conducted by the College, whereas for Semester V and VI the SEE is conducted by the University.

2.5.5. Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.)

- The tentative dates of ISA are informed to the students in advance by the faculty members. The first ISA is compulsorily a written test which can be objective, short answer type etc. It is conducted by the teacher during his/her respective lecture timing.
- The second ISA can be in the form of presentation/assignment, power point presentation/viva-voce examination, etc.
- In Spoken English, weightage is given to Interviews, Telephone Conversation, on the spot conversation, Debates, Presentations which help to develop and improve Communication Skills
- Newspaper analysis, Advertisements help to develop critical and independent learning and behavioural aspects.
- In Chemistry, the second ISA comprises of Demonstration reactions, Models making and application of Chemistry in day to day life. Every day home work also carries weightage for second ISA thereby making students accountable to learn.
- Students are made aware of their ISA marks.

2.5.6. What are the graduate attributes specified by the College/affiliating University? How does the College ensure the attainment of these by the students?

The graduate attributes designated by the College for the exit students are creative and critical thinking, self reliance, confidence building, belief in teamwork, command over communication skills, innovation and research enhancement, social service, harnessing knowledge, patience and perseverance, lifelong learners, avid readers, dignified citizen and holistic development.

The efforts are made to attain the above attributes in following manner:

- Exposure to outside world through various study tours, field trips, visits to industries, research bodies and institutions.
- Participating and organizing of personality development, entrepreneurship and enrichment programmes, intra and intercollegiate events under NSS, Student's council, Clubs, associations and Committees.
- Counselling and mentoring by the teachers, through self-study assignments, presentations, posters.
- College shoulders the responsibility to sensitize the students against cross-cutting issues like caste, religion, creed, gender, sexual harassment, and social issues like environmental protection, and community service.
- Alumni and PTA are involved in conjunction with the College for the upliftment and social harmony.
- The College recognizes above key factors as attributes which students should imbibe not only to be good human beings and good citizens but also to act as agents of change in the society.

2.5.7. What are the mechanisms for redressal of grievances with reference to evaluation both at the College and University level?

- The College has constituted a Grievance Committee with the following members-

Dr. P.K.Rath	-	Chairperson
Ms. Anita Raicar	-	Member
- For semesters V and VI, students can apply for revaluation of answer books to the university. Students from Semester I to IV can apply for Personal verification of answer books along with payment of prescribed fees.
- The student can apply to the Grievance Committee if he/she is not satisfied with the result of the personal verification of the answer book. The Grievance Committee will take appropriate action as per the relevant ordinance.

2.6. Student Performance and Learning Outcomes.

2.6.1. Does the College have clearly stated learning outcomes? If 'Yes' give details on how the students and staff are made aware of these?

- Yes, the College has a well-defined vision, mission goals and objectives where expected learning outcomes are stated.
- Each Club, Cell, Committee, association has its own goals and objectives which are clearly expressed and documented.
- These learning outcomes are reflected in prospectus, College official website and College magazine – “Mahashala”.
- During the induction programme for freshers, these specified learning outcomes are emphasized and the students are urged to abide by them.

2.6.2. Enumerate on how the Institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Entry level Performance of the students						Exit level Performance of the students					
Semester I						Semester VI					
Year		Distinction	1 st Class	2 nd Class	Pass Class	Year		Distinction	1 st Class	2 nd Class	Pass Class
2011	Science	1	8	7	-	2011	Science	24	18	4	-
-	Arts	2	4	6	12	-	Arts	3	12	17	5
2012	Commerce	7	15	17	16	2012	Commerce	4	19	25	13
2012	Science	2	7	4	-	2012	Science	24	14	-	1
-	Arts	6	7	4	7	-	Arts	1	23	8	1
2013	Commerce	2	16	30	16	2013	Commerce	4	19	33	11
2013	Science	1	11	3	1	2013	Science	29	8	3	-
-	Arts	1	4	17	8	-	Arts	8	16	15	7
2014	Commerce	-	4	3	1	2014	Commerce	2	23	38	20
2014	Science	2	8	4	2	2014	Science	8	14	19	8
-	Arts	-	2	8	11	-	Arts	22	9	1	-
2015	Commerce	2	4	14	6	2015	Commerce	-	14	61	22
2015	Science	5	8	4	-	2015	Science	15	13	1	1
-	Arts	1	11	15	10	-	Arts	5	15	17	3
2016	Commerce	2	14	19	29	2016	Commerce	4	20	46	16

- The progress of the students is monitored in a systematic way –
 - The monthly attendance reports are displayed on the notice board. The parents of those students having less than the stipulated attendance are informed accordingly.

- The ISA results are declared and the answer books are handed over to the students for their perusal by the respective faculty members.
- After the declaration of the SEE results of those students who need improvement are handed over to them in the presence of their parents.
- An analysis of the students results Programme/Course wise for last four years is provided above.

2.6.3. How are the teaching, learning and assessment strategies of the Institution structured to facilitate the achievement of the intended learning outcomes?

- A number of strategies planned by the teacher at individual subject level and others at the institution level help in achieving learning outcomes.
- Teachers think of the strategies separately while preparing teaching plans as different subjects require different course of action. The level of learning of the student is also considered.
- Slow learners are identified and dealt with separately during remedial classes.
- Parents are also taken into confidence and informed about the performance of the students periodically.

2.6.4. What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship innovation and research aptitude development among students etc.) of the courses offered?

- The students are motivated to take up projects having social and economic relevance. They are also encouraged to participate in the seminars, workshops and other activities which provide them exposure to the professional world.
- The College conducts seminars and workshops for students on career and placement opportunities. Workshops and seminars on Personality development are conducted.
- The Placement Cell invites industries/companies for campus recruitment.
- Certificate courses were conducted by the Library, Computer Science, Economics to provide the students skills for gainful employment.
- Industrial visits, field trips to research institutions are also conducted. Social awareness is created by organising street plays and cultural competitions.

- Entrepreneurs are invited to talk to the students about their business. Consumer Mela and Micro Bazaar were organised to create and enhance relevance of entrepreneurship.

2.6.5. How does the Institution collect and analyse data on student performance and learning outcomes and use it for planning and overcome barriers of learning?

- The low performance of the students is tackled by mentoring and boosting the morale of the students and conducting remedial classes to understand the concepts of the subject before re-answering the exam.
- The record of the results of the students at the examination conducted by the University is maintained by the College. These results are analysed and compared with the overall university results. This helps the teacher in planning and effective teaching.
- Involvement of the parents to know the level of aptitude and grasping power of their wards overcomes barrier of learning.

2.6.6. How does the Institution monitor and ensure the achievement of learning outcomes?

- Students gain mastery over following attributes of learning outcome i.e. knowledge, comprehension, understanding, application, analysis, evaluation, synthesis and creativity.
- Institution monitors and safeguards the achievement of these outcomes through ISAs, SEE and winning trophies at various academic, curricular, sports, NSS and cultural activities.
- Through the Alumni profile that has been built up over the years which has been working towards socially uplifting causes.
- The performance at the university level and comparison with the overall university results guides the students to recognise their abilities.

2.6.7. Does the Institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'Yes' provide details on the process and cite a few examples.

Yes.

- Achieving learning outcomes need specific experiences to be provided to the students and evaluation of their attainment. Learning outcomes are evaluated and assessed so that they are not neglected in implementation. Learning outcomes are part of the

evaluation protocol of the programme. The outcomes are used to assess the effectiveness in teaching learning process. If the outcome is poor then remedial coaching and guidance is provided to the students concerned.

- Difficulty solving sessions, counselling, additional help in the form of books/references/notes by the teaching faculty.
- Motivating students to learn, personal attention after class hours and during free time to enhance the performance.

CRITERION III

RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

No. However efforts are made to start Research Centres in different Departments of the College. Department of Konkani and Department of Political Science has already got the No Objection Certificate from Directorate of Higher Education, Government of Goa and has applied for affiliation to Goa University. The Affiliation Committee will be visiting the College shortly. The research centres will be functional once the affiliation is sought.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes. The institution has a Research Committee appointed from time to time. This committee consists of members of the teaching faculty who have acumen for research. The members of Research Committee are:

1. Dr. Isabel Dennis, Associate Professor in English
2. Mr. Prashant Chodankar, Associate Professor in Physics
3. Ms Sujata Gaonkar, Associate Professor in Computer Science

The few of the recommendations made by the committee are:

- The committee members facilitate the staff and students of the institution to present research papers in conferences and seminars.
- It also gives guidance to interested staff members to publish their papers in reputed research journals.
- The staff is encouraged to pursue their further studies, M. Phil., Ph.D., Post-Doctoral and also to apply for minor/major research projects.
- The institution also has been publishing its own in house research Journal titled '**Khoj**'. The Journal carries articles of interdisciplinary nature and of contemporary relevance.

The recommendations of the committee have created a congenial atmosphere for academic and research endeavours among the staff members. The College has seventeen faculty members with Ph.D. degree, six have M.Phil. Degree, while 05 members are pursuing further studies.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

To facilitate smooth progress in implementation of Research, the institution takes the following steps:

- Autonomy is given to the principal investigator
- There is timely release of financial resources received from different funding institutions like UGC and ICSSR.
- The College provides additional library facilities to the investigator.
- The science faculty is provided facilities such as instruments, chemicals which are required to carry out research projects.
- The faculty has availed study leave under F.I.P. of UGC.
- Two of our staff members have been able to take the benefit of sabbatical leave and have produced constructive research contributions.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The research culture is promoted among the students by adopting various strategies:

- The students have a project paper in the third year graduation. They are motivated to take field-based projects. They are enlightened on concepts like research methodology, framing and testing of hypothesis, sampling, techniques of data collection like survey, interview etc. Over a period of time the students have developed scientific temper and inclination towards research which has resulted in students producing quality projects. This exercise has also helped students to cope better when they go for post-graduation and for other research programmes.
- The students are encouraged to make presentations in the class, and write quality assignments.
- The students are also encouraged to attend and present papers in seminars at various Colleges and other institutions.
- Various eminent personalities are invited from time to time to share their contribution in the field of research.
- Various Departments in the College annually organize field trips, industrial visits and visits to research institutes such as :

NIO Goa, NCAOR Goa, BARC Mumbai, ICAR Goa, University of Mysore Defence Food Research Laboratory and CFTRI – Mysore, CCMB, CIMAP, Dr. Ronald Ross hospital for Malaria and Department of Genetics and Genetic Disorders Osmania University Central Marine Fisheries Research Institute., National Institute of Oceanography, Kochi. National Centre for Aquatic Animal Health, National Bureau of Fish Genetic Resources, Amrita Institute of Medical Science and Research Centre etc.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

The following are the details of Faculty involvement in active research:

1. **Guiding Student research:** One of our faculty members, **Dr Seema P. Rath**, Associate Professor in Economics, is a Guide for a Ph.D. student of Tilak Maharashtra University, Pune. The topic for the thesis is ‘Agricultural Practices and Farmers’ Education in Ponda Taluka of Goa’.
2. **Leading Research Projects:** The College has got two major projects and three minor projects funded by UGC and ICSSR.

❖ **Major Projects:**

- **Completed:** Dr. Seema P. Salgaonkar, Associate Professor in Political Science, completed her **Major** Research Project titled ‘Awareness at Gram Sabhas in Goa: Analyses and Perspective’ funded by ICSSR for the period from 2011-13.
- **Ongoing:** Mr. Jaison Joseph, Associate Professor of Physics is presently working on **Major** Project title ‘Surface and bulk studies of nano-particle spinel ferrite thin films’ funded by UGC-DAE-CSR, Indore, for the period from September 2015-August 2017.

❖ **Minor Projects:**

- Dr Seema P. Salgaonkar, Associate Professor in Political Science, completed her **Minor** Research Project titled ‘Empowerment of Women through WSHGs-A Case Study of Goa’ funded by UGC for the period from 2005-07.
- Mr. Jaison Joseph, Associate Professor in Physics, completed **Minor** Research Project ‘Synthesis, characterization and study of Electrical & Magnetic properties of Nanostructured Mixed ferrite materials’ funded by UGC for a period from August 2009-July 2012.
- Dr. Christina De Souza, Associate Professor in Economics, was sanctioned **Minor** Research Project by ICSSR, WRC, Mumbai titled ‘Unorganised sector: Social Protection of Vegetable Vendors in Goa’ for the year 2014-15.

3. Individual/collaborative Research Activity

The faculty of the College is dedicated towards carrying out quality research work. 17 out of 30 regular faculty members have Ph.D. qualifications. The rest are pursuing their doctoral studies.

Table 3.1.1

Total Regular Faculty members	Faculty completed Ph.D.	Faculty completed M.Phil.	Faculty pursuing further studies
30	17	06	05

Although the progress of the students is the main goal of the institution, the faculty has written and published quality articles in reputed journals. Our faculties are on editorial boards, have written chapters in edited books, have authored books, presented papers in national and international conferences, and have received recognitions and awards for their research works.

3.1.6. Give details of workshops/training programs/sensitization programs conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Training and sensitization programs have been conducted by various Departments in the College to imbibe research culture among the staff and students. Some of these programs are as follows:

- Marathi Department organized a State level workshop on the topic ‘*Kavitalekhan: Tantra ani Mantra*’ on 25th February 2012. Students from various Colleges and Higher Secondary schools participated in this workshop.
- The Department of Mathematics organized a one-day workshop on *Python Programming*.
- The computer Science Department organized a workshop on ‘*Hardware Maintenance and Troubleshooting and Cloud Computing*’ on 8th February 2016.
- Department of Chemistry organized in collaboration with Syngenta India Limited organized a one day State level workshop on “*Safety in Laboratory*” on 30th April 2016 to sensitize students, teachers and laboratory staff on research culture.
- The Department of Chemistry in collaboration with Science Association organized a *Science Exhibition on Science Day* for School and Higher Secondary students on 27th February 2016 to create awareness of science among them.
- The Department of Political Science organized a two day Seminar on ‘*Women headed Panchayats and empowerment of Women at grassroots*’ on 8-9th July, 2016.

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The prioritized research areas and expertise available with the College is given in the table below:

Table 3.1.2

Sr. No.	Name	Subject	Area of Expertise
1.	Dr. Seema P. Rath	Economics	Economics of Education, Public Finance, Health Economics
2.	Dr. Lucas Miranda	Mathematics	Algebraic Topology
3.	Dr. Prabirkumar Rath	Geography	Regional Planning, Tourism, sustainable development
4.	Dr. Jivexa J. Bhattacharjee	Chemistry	Organic Synthetic Chemistry
5.	Dr. Christina De Souza	Economics	Laboratory our Economics and Women Empowerment
6.	Dr. Tara Shankar Dey	Physical Education	Physiology and Exercise
7.	Shri. Jaison Joseph	Physics	Material Science and Nano magnetic materials
8.	Dr. Prakash R. Vazrikar	Konkani	Dramatics
9.	Smt. Asha B. Gahloth	Hindi	Hindi Literature
10.	Shri. Prashant V. Chodankar	Physics	Nano Technology
11.	Dr. Mahesh S. Pai	Psychology	Industrial Psychology and Counseling
12.	Dr. Sitaram V. Sukthankar	Commerce	Tourism and Hotel Industry
13.	Dr. Dilecta D'Costa	Microbiology	Dairy Microbiology, Medical Microbiology and Veterinary Public Health
14.	Dr. Isabel Dennis	English	English Literature
15.	Dr. Pravina Kerkar	Geography	Regional Planning and Tourism
16.	Smt. Marina Fatima Albuquerque	Microbiology	Food and Industrial Microbiology
17.	Smt. Sunetra S. Calangutkar	Marathi	Marathi Poetry
18.	Dr. Seema Salgaonkar	Political Science	Gender Studies, Grassroots Governance
19.	Dr Beena Vernekar	Chemistry	Inorganic Synthetic Chemistry, Green Chemistry, Nano Science, Bio-inorganic Chemistry
20.	Dr. Rajashri Mordekar	Chemistry	Solid State Chemistry, Environmental, Chemistry
21.	Dr Sushanta Sapte	Microbiology	Medical Agricultural and Industrial Microbiology
22.	Ms. Ranjana Sawaikar	Commerce	Tax Consultancy
23.	Ms. Anita Raicar	Computer Science	Computer Networks, Operating Systems
24.	Ms Varada Kalas	Mathematics	Analysis, Applied Mathematics

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The institution has been able to attract researchers to visit the campus and interact with teachers and students. The following table highlights the visits of researchers of eminence.

Table 3.1.3

Name of the resource person	His /her association or designation	Topic deliberated	Date & Year
Dr. Dayanand Rao	Professor, Goa Medical College, Bambolim	Opportunities and Challenges for Youth	27-02-2016
Manguirish Pai Raiker	Ex. President, GCCCI	Industry Expectation from Commerce Students	2-03-2016
Kashinath Naik	Managing Director, CMSF	Getting Industry Ready – Hard work ahead	3-03-2016
G. Shrinivas	Asst. Regional Manager, IGNOU (Goa)	IGNOU - Opportunities for Learning	4-03-2016
Dr. Kamlesh Fondekar	Head of Technology and Engineering , Syngenta, India	Challenges and Opportunities in Chemical Industry	12-02-2016
Anita Haladi	Assist Prof, DM's College, Mapusa	Tourism in Goa: Opportunities and Challenges	8-03-2016
Ravaji Gaonkar	Official on Field, SSA	SSA – an Insight	14-02-2015
Ronald Martins	Coordinator, GOACAN	Consumer Protection Act	17-8-2015
Shrirang Jambhale	Principal, Krishna Pai Raikar Agricultural Higher Secondary School, Savoi Verem	Opportunities and Challenges for Rural Entrepreneurs	19-8-2015
Nilesh Amonkar	Corporate Trainer	Mantras of Success	8-08-2014
Miguel Braganza	President, Botanical Society of Goa	Organic Farming and its relevance & Organic Oyster Mushroom Cultivation	10-12-2013 23-09-2014
Karan Manaral	Green Essential Entrepreneur	Winter Vegetable Cultivation	25-03-2014
K. Hiremath	Associate Professor of Botany	Ecological Pest Management	10-12-2013
Carolina collasso	High Court Advocate	Sexual Harassment of Women at Work place	07-10-2015
Ranjana Ferrao	Assistant Professor, Salgaokar College of Law	Role of Internal Complaints Committee	07-10-2015
Sham Prabhu	Technical Consultant	Effective Use of LCD Projector	13-08-2015

Hemant Ayya	Assistant Professor, Quepem	Rarangdhang	27-09-2013
Ashok Tilvi	Sana Guruji Kathamala	‘Shyamchi Aai	25-08-2014
Somnath Komarpant	Marathi Department, Goa University	Sant Sohrobanath	13-03-2015
Vithal Thakur	Doctor	Lekhakashi Samvad	22-02-2016
Dr. Geeta Patki	HOD of Gynaecology, Ayurveda College	Tackling Women’s Woes through Ayurveda	8-3-2014
Dr.Celine Noronha	Primary Health Centre Doctor	World TB Day	24-3-2014
Dr. Oswald Fernandes	Chief medical officer	Vector Borne Diseases	16-7-2014
Ms. Sheryl Afonso e D’Souza	Assistant Professor of Food & Dietetics at Goa College of Home Science	Nutrition as a key to good health and growing up gracefully	20-8-2014
Dr. Ugam Tari	Primary Health Centre Doctor	T.B Awareness & Challenges Faced by Youth especially with regard to Drug Addiction	24-3-2015 12-8-2015
Adv. Akshaya Dessai	Advocate - Majlis- Mumbai	Speak up against Violence behind Closed Doors	15-1-2016
Mrs. Anita Haladi	Asst. Professor, DM’s College, Commerce	Tourism in Goa : Opportunities and Challenges for Women	08-03-2016

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Two staff members (6.6%) have availed the Sabbatical leave for research activities.

Dr Beena Vernekar from Department of Chemistry availed the Sabbatical leave from 14/09/2013 to 14/05/2014 and from 19/05/2014 to 19/07/2014. During the period of sabbatical leave research work was carried out on drugs in interaction with metals as antimicrobials at School of Chemistry, University of Hyderabad.

She received the Indian Academy of Sciences’ Fellowship and worked under the guidance of Prof. Sabyasachi Sarkar at Indian Institute of Engineering, Science and Technology, Shibpur, Kolkatta. This research has widened her knowledge of Chemistry in the areas of synthetic inorganic Chemistry and Nanosciences.

Dr Seema P. Rath from Department of Economics availed Sabbatical leave for the period 02/07/2015 to 30/06/2016. She received the Hugh Kelly Fellowship at Rhodes University, Grabamstown, South Africa. Her subject undertaken for research study is Health Economics related to Non Communicable diseases.

Both the faculty members have published their research findings in reputed research journals.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (laboratory to land)

- The staff of the College is continuously engaged in research activities. The research findings are discussed by the staff members among themselves as well as with the students. This leads to creating of awareness about various issues and ideas in the campus.
- The students have various projects to their credit which have successfully dealt with issues like women empowerment through women self-help groups, impact of mining, the socio-economic impact of various schemes introduced by the Government of Goa etc.

The Department of Microbiology has taken the initiative of Laboratory to land in the following ways:

- Study of the microbial flora in local horticultural food products around Marcel.
- Production of citric acid by using vegetable and fruit waste from Banastarim and Sankhali markets.
- Comparative studies of bacterial flora along the Mandovi River.
- Microbiology Assessment of well-water of three villages: Cumbharjua, Marcela and St.Estevam.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Being a Government College, the College has no freedom to have budget earmarked for research. However the institution has provided logistic support to the interested faculty members to carry out their research activities. The staff members are encouraged to apply for research grants from various funding agencies like UGC, ICSSR, DST etc. The institution has a policy whereby the institution reimburses participation fees of the faculty members attending Seminars/ conferences within and outside Goa. The institution also provides necessary infrastructure for the researchers to conduct his/her research.

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

There is no provision to provide seed money to the faculty for research however, the Directorate of Higher Education, Government of Goa has a scheme for funding research proposals for promoting science education.

3.2.3 What are the financial provisions made available to support research projects by students?

Separate financial provisions have not been made to support research projects, however the expenditures involved in the use of chemicals and instruments while conducting research, is borne by the College in their regular purchase of chemicals and equipment's.

The students are provided with necessary infrastructure like internet facilities, books, library, computers, photocopying facility, etc. so that they can work on their research projects. Students are also provided travelling allowance to attend seminars and conferences within the State. Students can avail schemes for promotion of science education initiated by DHE.

3.2.4 How does the various Departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The staff of the College is involved in interdisciplinary research. The following table reflects the faculty and Departments involved in the interdisciplinary research.

Table 3.2.1

Sr. No.	Name of the faculty	Title of the Project/research	Subject areas
1.	Dr. Seema P. Rath	Health Economics	Economics and Health Sciences
2.	Dr. Lucas Miranda	Knot Theory	Mathematics, Physics & Molecular Biology
3.	Dr. Prabirkumar Rath	Regional Planning, Tourism, sustainable development	Geography, Economics & Environment
4.	Dr. Christina De Souza	Women in unorganized sector	Labour Economics and Women Empowerment
5.	Dr Jivexa Bhattacharjee	Photocatalytic degradation of azo dyes	Chemistry & Physics
6.	Dr. Tara Shankar Dey	Physiology and Exercise	Physical Education, Anatomy & Physiology
7.	Shri. Jaison Joseph	Material Science and Nano magnetic materials	Physics, Chemistry & Life Sciences
8.	Mr Prashant chodankar	Electronic/Optics	Physics & Opto-Electronics
9.	Smt. Asha Gahloth	21 st century Hindi Literature	Hindi, Sociology & Political Science
10.	Dr. Sitaram V. Sukthankar	Tourism and Hotel Industry	Commerce and tourism

11.	Isabel Dennis	Malcolm; A critique of his writings	English & Sociology
12.	Dr. Dilecta D'Costa	Dairy Microbiology	Microbiology and Veterinary Public Health
13.	Dr Prakash Vazrikar	Konkani Drama	Konkani, Political Science, Sociology
14.	Dr. Pravina Kerkar	Regional Planning and Tourism	Geography and Tourism
15.	Smt. Marina Fatima Albuquerque	Biotechnological Applications of Yeast	Microbiology, Biotechnology and Botany
16.	Smt. Sunetra S. Calangutkar	Marathi Poetry	Marathi, Culture and Art
17.	Dr. Seema Salgaonkar	Awareness at Gram Sabhas	Gender Studies, Grassroots Governance
18.	Dr Beena Vernekar	Drugs as antimicrobials	Chemistry and Microbiology
19.	Dr. Rajashri Mordekar	Industry dyes and effluent degradation	Chemistry, Microbiology and Environmental Studies
20.	Dr Sushanta Sapte	Medical Microbiology	Microbiology & Medicine

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The institution takes every measure to ensure optimum utilization of various equipments and other facilities available with the College. The students and the staff members are encouraged to make best use of facilities like library, internet, computers, photocopy machines, gymnasium, etc. The various equipments, instruments, and chemicals are optimally utilized by students across the science stream.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

Four of our staff members have been able to receive grants under FIP of UGC. Also the institution has received funds from ICSSR and UGC for organizing seminars. Three of our staff members have also been financed by these bodies to conduct minor/major research project. The Syngenta India Limited has consented for upgrading Chemistry Laboratories for Research purpose. Dr. Beena Vernekar and Dr Sushanta Sapte has applied for a research grant under DHE's Promotion of Science scheme.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The College has been always encouraging its staff members to apply for various research grants from funding agencies like UGC, ICSSR etc.

Table 3.2.2

Name of the project	Duration (years) From-To	Title of the project	Name of the Recipient	Name of funding agency	Total Grant received
Minor project	2009-2012	Synthesis, characterization and study of Electrical & Magnetic properties of Nanostructured Mixed ferrite materials'	Jaison Joseph, Department of Physics	UGC	100000/-
Minor project	2014-2015	Unorganised sector: Social Protection of Vegetable Vendors in Goa	Christina De Souza, Department of Economics	ICSSR WRO, Mumbai	60,000/-
Major project	2011-2013	Gram Sabhas in Goa: Analysis and Perspective	Seema P. Salgaonkar, Department of Political Science	ICSSR	4,37000/-
Major project	2015-2017	Surface and bulk studies of nano-particle spinel ferrite thin films	Jaison Joseph, Department of Physics	UGC-DAE-CSR, Indore	2,00000/-

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The College strives to provide good research environment to the students and research scholars. It provides:

- Infrastructure
- Library facilities
- Internet facilities, computers, provision of photocopies etc.
- Duty leaves to staff members for attending seminars and presenting papers
- The Departments of Physics, Chemistry, and Microbiology also have basic and advanced instruments available in their Departments which facilitate research.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The institution has strategies for upgrading research facilities. Directorate of Higher Education, Government of Goa has upgraded and renovated all science laboratories to meet the needs of faculty and students who are actively involved in research activities. The institution also has a fully-fledged Resource Centre with Wi-Fi facility. College has subscribed to N-List for e-journals, online books and explore other means for accessing information. Department of Chemistry has plans to subscribe for **SCIFINDER** a search engine for research purpose.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If ‘yes’, what are the instruments/ facilities created during the last four years.

The College has not received any special grant or support from industry for developing research facilities. However Proposal has been submitted to Syngenta India Limited and Deccan Chemicals for developing research and Post-Graduation laboratory and refurbishing of the present UG-chemistry laboratory

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

The students and staff of the College have been able to get the benefit of research facilities outside the campus and from research laboratories from various institutions. Some of these institutions and research facilities provided by them are highlighted in the table below:

Table 3.3.1

Institutions outside College campus	Facilities availed
Bhabha Atomic Research Centre (BARC)	Mossbauer Spectroscopy
Goa University	X-Ray Diffractometer (XRD), Vibrating Sample Magnetometer (VSM), Infra Red Spectroscopy.
National council for Atlantic and oceanic research. (NCAOR)	Scanning Electron Microscope (SEM).
Kerala University	Raman Spectroscopy and Radio Frequency Sputtering technique.
National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthpuram	Transmission Electron Microscope (TEM) and SEM
UGC- DAE- CSR, Centre for Scientific Research, Indore	Atomic Force Microscope (AFM), VSM, Pulse Laser Depositor (PLD), Super Conducting Quantum Interface Device (SQUID) VSM
National Institute of Oceanography (NIO),Goa	Scanning Electron Microscopy (SEM), X-ray Diffraction (XRD), Nuclear Magnetic Resonance (NMR).
Indian Council of Agricultural Research(ICAR)	Laminar Air Flow, Polymerase Chain Reaction, Pulsed Field Gel Electrophoreses

3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?

The researchers have been able to take the benefit of the College Library, Central Library Panaji, and Goa University Library, Taleigao.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the College for ex. Laboratories, library, instruments, computers, new technology etc.

Collaborative research is under consideration once the College is recognised as the research centre in the subjects approved by the Goa Government. The affiliation from the Goa University is awaited. However at individual level each faculty does pursue collaborative research and publish in reputed research journals.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

*** Patents obtained and filed (process and product)**

Nil

*** Original research contributing to product improvement**

Nil

*** Research studies or surveys benefiting the community or improving the services**

Political Science Department

The research carried out in social sciences has been beneficial to the community. Studies conducted on women Self-Help groups, on women in the unorganised sector, women in Panchayats have given impetus to understand the hurdles in the process of women empowerment. Studies conducted on grassroots governance, on small-scale entrepreneurship, on soil fertility, etc has also benefited the community at large.

Economics Department:

Study conducted on various aspects of Non-Communicable Diseases (NCDs) is helpful in creating awareness about the diseases among the community to enable to lead a healthy life. The studies on NCDs and Accessibility and Affordability of Essential Medicines are useful for improving the provision of health services to the society and for achieving sustainable human development.

The experiments and research undertaken by the Science faculty has also contributed to the community development.

Microbiology Department

The Microbiology Department carried out testing of well water of surrounding areas of the College for its portability. This Department also provides guidance on water pollution in river Mandovi and how to tackle flower waste management.

Chemistry Department

Degradation of dyes and industrial effluents using photo catalyst, Value addition to iron ore rejects, Analysis and Hazards of Holi colours, Synthesis of antimicrobial agents from interaction of drugs and metals with enhanced efficacy, Analysis of kidney stones of people residing in south Goa.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

The institution publishes in-house interdisciplinary journal titled '**Khoj**'. The members of the editorial board of this journal are staff members who have the acumen for research and have published research papers in reputed journals and books. The editorial board members are:

1. Dr. Isabel Dennis, Associate Professor in English
2. Mr. Prashant Chodankar, Associate Professor in Physics
3. Ms. Sujata Gaonkar, Associate Professor in Computer Science

The institution invites research articles from the faculty for publication in the research journal. The editorial board reviews the articles before publishing the same and if necessary the articles are revised for publication.

3.4.3 Give details of publications by the faculty and students:

* Publication per faculty

Name of the Faculty	Publication in National Journals / books with ISSN/ISBN No	Publication in International Journals / books with ISSN/ISBN No	Publication in journals without ISSN/ISBN No	Publication through Conference Proceedings	Total
Dr Seema P. Rath	12	02	-	-	14
Dr Christina D' Souza	17	02	02	-	21
Ms Asha Gehloth	01	-	06	-	-
Dr. Jaison Joseph	01	06	-	01	08
Dr Seema P. Salgaonkar	13	03	-	01	17
Dr Sushanta Sapte	02	03	-	-	05
Radhamani Divakar	-	-	06	-	06
Dr Sitaram Sukhtankar	03	01	-	-	04
Dr. Rajashri Mordekar	-	03	-	01	04
Ranjana Sawaikar	01	-	-	-	01
Dr Pravina Kerkar	01	-	-	01	02
Sunetra Calangutkar	02	-	01	-	03
Dr. Dilecta D'Costa	01	-	-	-	01

1. **Rath S., “Climate Change and Occupation with reference to Agriculture in India”** (Joint Paper) in ISSN based National Research Journal “*The Goa Geographer*”, Vol. VII, 2010.
2. **Rath S., “Female Work Participation in Goa”** in National Level Research Journal “*The Goa Geographer*”, Vol. VIII, No. 1, Dec. 2011.
3. **Rath S., “An Overview of Current Inflation in India”** in **Research Journal “Researcher’s Today”**, Volume 2, No 1, January-March 2012 with ISSN-2231- 4369.
4. **Rath S., “A Study of Performance of Agriculture in Goa”** (Joint Paper) in ISSN based National Research Journal “*The Goa Geographer*”, Vol. X, No. 1 December 2013.
5. **Rath S., Morobi T., Chigumete T., Mushoriwa F. & Srinivas S., 2016, Diet, Obesity and Non-communicable Diseases in South Africa and India, World Journal of Pharmacy and Pharmaceutical Sciences, Volume 5, Issue 2.**

6. Tariq M., **Rath S.**, Mushoriwa F & Srinivas S. 2016, **Health and Sustainable Development Challenges of the 21st Century: A Comparative Analysis of Salt Reduction Strategies** in *Population Review*, Vol. 55, Number 1.
7. **Rath S.**, Tariq M., Mushoriwa F., Chigumete T., Morobi T., & Srinivas S., 2015, **Economics of Non-Communicable Diseases: Case Study of South Africa and India**, *Indian Journal of Pharmacy Practice*, Vol 8, Issue 3, Jul-Sep.
8. **Rath S.**, Patnala, S. Bosman S. J.& Srinivas S., **Sustainable Development Goals and Addressing Non-communicable Diseases**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Special edition Apr-Jun, 2016 ISSN 0974-8326 pp. 66-72
9. Mbobo G., **Rath S.**, Bosman S. J.& Srinivas S., **Addressing Childhood Overweight and Obesity: A Focus on India and South Africa** *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun, 2016 ISSN 0974-8326 pp. 95-101
10. Duxbury T., **Rath S.**, Maraj P., Bosman S.J. & Srinivas S., 2016, **Controlling use of Tobacco for Sustainable Development: A Focus on India and South Africa**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun..
11. Marara P., **Rath S.**, Sharma S., Bosman S.J. & Srinivas S., 2016, **Curtailling Unhealthy Consumption of Alcohol for Sustainable Development in India and South Africa**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun.
12. Mushoriwa F., **Rath S.**, Mabika N., Bosman S.J. & Srinivas S., 2016, **Dietary Salt Reduction: a Glance at India and South Africa**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun.
13. Chigumete T., **Rath S.**, Bosman S.J. & Srinivas S., 2016, **Promoting Healthy Diets for Sustainable Development**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun.
14. **Rath S.** and Rath P., **Climate Change and Occupation with reference to Agriculture in India**, *The Goa Geographer*, Vol. VII, 2010, ISSN: 0976-786X.
15. **Rath S.**, **Female Work Participation in Goa**, *The Goa Geographer*, Vol. VIII, No. 1, Dec. 2011, ISSN: 0976-786X, pp. 150-157.
16. Dessai S. and **Rath S.**, **A study of Performance of Agriculture in Goa**, *The Goa Geographer*, Vol.X (1), December 2013, ISSN: 0976-786X.
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***Monographs**

Christina D'Souza, (2011-2012), "Self Help Groups in Goa: Towards the Social and Economic Empowerment of Women in Goa", funded by ICSSR Western Regional Centre, Mumbai.

*** Chapter in Books**

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4. **Rath S., “The Status of Agriculture in Goa”** in Prasad, K.N. (ed.), *Regional Development in the era of Globalization, Liberalization & Privatization* (Proceedings of the National Seminar sponsored by UGC, CRO, Bhopal), Adhyayan Publications, New Delhi, 2012.
5. **Rath S., “Promotion of Sustainable Tourism Through Healthy Tourism Policy with special reference to Goa”** in Tomar A.S. (ed.) *“Eco Tourism: Principles and Practices”*, Radha Publications, New Delhi, 2015.
6. **Christina D’Souza, 2011, “Public Private Partnership in Higher Education in India: An Introspection, Quality Concern in Higher Education”**; Ed. B.T. Lawani and Jagdish Jadhav, Centre for Social Research and Development, Pune. ISBN: 978-81-910455-1-3
7. **Christina D’Souza, 2013, “Impact of the Global Financial Crisis on the India Economy an Introspection”, Global Financial Crisis and Vulnerability of the Indian Economy**, Ed: Debasish Mazumdar ; Abhijeet Publications, New Delhi; ISBN No. 978-93-5074-102-3.
8. **Christina D’Souza, 2013, “Empowerment of Women in Goa: Are Self Help Groups the Panacea? Emerging Issues of Women Empowerment**, Ed: Jayanta Mete and Ajit Mondal, Kunal Books, New Delhi, ISBN No.978-93-82420-20-0.
9. **Christina D’Souza, 2014, “Labour Welfare and Job Satisfaction: A Comparative Study of Indian Pharmaceutical Companies and Multinational”**, Goan Economy: An Analysis of Select Issues, Ed: Prof. Silvia Maria de Mdendonca e Noronha, Broadway Publishing House, Panaji-Goa, ISBN No: 978-93-80837-97-0.
10. **Christina D’Souza, 2014, “Social Inclusiveness of the Health Sector in India: Issues and Challenges”, Socio-Economic Inequities and the Health Sector: Issues and Perspectives**, Ed. Savio Falleiro and Afonso Botelho, Cinnamon Teal Publishing, Margao, ISBN 978-93-83175-68-0.

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12. **Christina D'Souza**, 2015, “**Women in the Unorganized Sector: Investigating the Social Protection of Vegetable Vendors in Goa**”, **Women in the 21st Century: Working Towards Empowerment**, Ed. Dr Daisy John Domic, Broadway Publishing House, Panaji, ISBN No. 978-93-84298-19-7.
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14. **Asha Gheloth**, 2015, ‘**विज्ञापनऔरसमाज**’, **मीडियाऔरलोकतंत्र**, Vani Prakashan, Delhi.
15. **Sunetra Calangutkar**, December, 2012, **Prof Bhiku Pai Angle Yanche Sahitya Swaroop va Sameeksha**, Parvatibai Chowgule College, Margao, Goa.
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18. **Seema P. Salgaonkar** 2008, “**Globalization, Women and Issues at Stake**”, in **Globalization and Political Culture** (ed.), Gauttam Book company, Jaipur, ISBN: 978-81-904601-2-5.
19. **Seema P. Salgaonkar** 2016, “**Women Headed Panchayats and Empowerment at Grassroots in Goa: an update**”, in **Goa Looking Back Looking Forward**(ed.), Broadway Publishing House, Panaji, Goa, ISBN: 978-93-84298-34-0.
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23. **Jaison Joseph, R.B.Tangsali**, 2011, “**Nanoparticle Spinel Ferrite Thin Films-Deposition and Characterisation**”,Mathematical Aspects of Physical concepts and Physical Aspects of Mathematical Concepts, Tilak Wasan, Discovery Publishing House PVT. LTD, New Delhi.(P.115-120),ISBN:978-81-8356-798-5.
24. **Dr Dilecta D’Costa**, 2015, “**Prevalence of *Listeria* in Milk from Farm to Table**”, Bioprospects of Coastal Eubacteria – Ecosystems of Goa, Springer, ISBN: 978-3-319-12909-9.

*** Books Edited**

Nil

*** Books with ISBN/ISSN numbers with details of publishers**

1. **Seema P. Salgaonkar**, 2014, ‘**Awareness Level at Gram Sabhas in Goa: Analysis and Perspective**’ ISBN: 978-93-5142-672-1, Himalaya Publishing House.
2. **Sunetra Calangutkar**, June, 2013, “**Parijanya**”, Anthology, Poetry Collection, Lopamudra Prakashan.
3. **Prakash Vazrikar**, Associate Professor of Konkani, has a list of Konkani Plays written by him. Some of them are:
 - *Ek Buto Fullo*
 - *Ghattan Kanachem?*
 - *To Ek Dis*
 - *Saad Antarmanacho*
 - *The Riot to Vote*
 - *Vajraghat*

He has also co-authored book titled ‘**Karbari Konkani**’ (Functional Konkani).

*** Citation Index**

Nil

*** SNIP**

Nil

*** SJR**

Nil

*** Impact factor**

1. **Jaison Joseph, R.B. Tangsali et al**, 2014, Microstructure and magnetic properties of patterned nano crystalline zinc ferrite thin film fabricated by pulse laser deposition, **Materials Research Bulletin 61 (2014) 475–480. Impact factor 2.1**

2. **Sitaram Sukhtankar**, May- June, 2013, A study on growth of hotel industry in Goa, **IOSRJournal of Humanities & Social Sciences**, Vol. 11, Issue 2, ISSN NO 2279-0845. **Impact factor 1.607**

* **h-index**

Nil

3.4.4 Provide details (if any) of

* **Research awards received by the faculty**

The faculty members have received various awards and recognitions:

1. **Seema P. Rath, 2015**, received Hugh Kelly Fellowship at Rhodes University, Grabamstown, South Africa.
2. **Jaison Joseph, 2010**, was awarded by Indian Academy of Sciences Teacher Fellowship 2010, and was posted SSPD, BARC, Mumbai and his area of research was Ferrite material Mössbauer spectroscopy.
3. **Prakash Vazrikar, 2005**, received “Lt. Narciv Damodar Nayak Award” Constituted by Konkani Bhasha Mandal for his book “Ani Ek Buto Fullo”.
4. **Prakash Vazrikar, 2008**, received “Lt. Sadanand Khanolkar Literary Award” Constituted by Konkani Kala ani Sahitya Kendra, Churchorem for the book “Ani Ek Buto Fullo”.
5. **Prakash Vazrikar, 2010**, was awarded “D.D Kossambe Sr. Fellowship of Department of Arts and Culture, Government of Goa for the study on “Kokni Natak Chalvalicho Saunskrutik Itihas”, 2010.
6. **Christina De Souza** received the Best Paper Award at the National Conference on Women in the 21st Century: Working towards Empowerment for her paper titled ‘Women in unorganized sector: Investigating the Social Protection of vegetable vendors in Goa’ on 15th February 2015.
7. **Dilecta D’Costa**, H.O.D. of Microbiology attended a three-day International Conference on “Ecotoxicology & Environmental Sciences” organized by “Institute of Ecotoxicology and Environmental Sciences at Kochi, Kerala – India from 15th -17th February 2016 , in which she secured 1st place with a gold medal for the paper entitled “ Comparative Study Of Bacterial Flora Along River Mandovi”.
8. **Dilecta D’Souza** bagged Gold medal for the best paper titled ‘Comparative study of Bacterial Flora along the Mandovi River’, by Institute of Ecotoxicology and Environmental Sciences, held at CIFI, Kochi, Kerala. She also bagged Consolation prize for Best Paper Award by Shivaji University, Kholapur.
9. **Sushanta Sapte** was awarded 2nd place for poster **at Biosciences – Biocomp**, Shivaji University, Kholapur. The title of the poster was Diversity among *Listeria monocytogenes* isolated from animal clinical cases.

10. **Dr. Beena Vernekar** was awarded Fellowship by UGC Networking Resource Centre Hyderabad to work under project “Influence of external stimuli on the structural diversity of mefenamates interacting with nitrogen donor ligands” at school of Chemistry Hyderabad University Hyderabad from 14th September 2013 to 14th may 2014 and successfully completed on 14th may 2014.
11. **Dr. Beena Vernekar** Awarded Fellowship of Indian Academy of Sciences and completed summer research project on “Graphene Oxide and its interaction with Super Fullerenes” under the guidance of Prof. S. Sarkar, Indian Institute of Science and Engineering, Shibpur, West Bengal from 19th May 2014 to 19th July 2014.
12. **Dr. Rajashri Mordekar** was awarded second place for Best Oral Presentation for paper entitled “Pyrochlore Oxides for disposal of Nuclear Wastes” presented at UGC sponsored National Conference on Physics and Chemistry of advanced Materials held at C. B. Khedgi’s Basaveshwar Science College, Raja Vijaysinh Commerce and Raja Jaysinh Arts College Akkalkot –Solapur on 18-19 December 2013.

*** Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

1. **Prakash Vazrikar, 2009**, received “Yuva Srujan Puraskar” (Literature) by Department of Arts and Culture Government of Goa
2. **Dr Prakash Vazrikar, 2005**, bagged 1st place for best script writer of Marathi drama “Ethe Ethe Pani” at State Level Drama Competition organized Kala Academy Panaji.
3. **Dr Prakash Vazrikar, 2006**, bagged 1st place for best script writer of Konkani drama “To Ek DisKonkani” at State Level Drama Competition organized Kala Academy Panaji.
4. **Dr Prakash Vazrikar, 2006**, bagged 1st place for best script writer of Konkani drama “Discharge Summary” at State Level Drama Competition organized by Rajiv Kala Mandir, Ponda.
5. **Dr Prakash Vazrikar, 2006**, bagged 1st place for best script writer of Konkani drama “Partiche Vater” at State Level Drama Competition organized by Sankalp Theatre, Curchorem.
6. **Dr Prakash Vazrikar, 2008**, bagged 1st place for best script writer of Konkani drama “Dakhonm Tumka?” at State Level Drama Competition organized by Sankalp Theatre, Curchorem.
7. **Dr Prakash Vazrikar, 2009**, bagged 1st place for best script writer of Konkani drama “The Riot to Vote” at State Level Drama Competition organized by Sankalp Theatre, Curchorem.

8. **Dr Prakash Vazrikar, 2010**, bagged 2nd place for best script writer of Konkani drama “Homkand” at State Level Drama Competition organized by Kala Academy, Panaji.
9. **Dr Prakash Vazrikar, 2011**, bagged 2nd place for best script writer of Konkani Marathi drama “Ek Matacha Raja”, at State level Drama Competition organized by Kala Academy, Panaji.
10. **Dr Prakash Vazrikar, 2012**, bagged 1st place for best script writer of Marathi drama “Gav Khali Karnyacha Bhonga” at State level Drama Competition organized by Kala Academy, Panaji.
11. **Dr Prakash Vazrikar, 2013**, bagged 1st place for best script writer of Konkani i drama “Aut de Fe” at State level Drama Competition organized by Kala Academy, Panaji.
12. **Dr Prakash Vazrikar, 2014**, bagged 1st place for best script writer of Konkani drama “Anand Mathi” ” at State level Drama Competition organized by Kala Academy, Panaji.

*** Incentives given to faculty for receiving State, national and international recognitions for research contributions.**

The institute appreciates the faculty for getting laurels to the institution and encourages them in whatever way possible.

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute/ Industries interface?

There are various measures undertaken by the College to promote institution – industry interface.

- The College continuously interacts with the two neighboring industrial estates Khorlim, Kundaim and nearby areas. Industrial visit is organized for the students annually by various Departments.
- Students at VI semester level are encouraged to undertake industry related projects by Department of Commerce.
- The College invites the professionals from the industries on regular basis to deliver their expertise on various aspects of industry.
- The College also interacts with various other financial institution like banks in the locality, NGO’s like Sangath, Clubs like Rotary Club, Government Departments like GIPARD, etc. which also helps in promoting the interest of the institution.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The College does not have a policy on consultancy. However the staff members are encouraged to utilize and promote their expertise in different ways:

- Through College website.
- The College forwards curriculum vitae of the staff to various institutions and industry within and outside Goa.
- The faculty of the College has served in various capacities and shared their expertise. Some of the staff members of the College are on Board of Studies in their respective subjects.
- Our staff members have also had the honor to be members of various committees appointed by Government of Goa from time to time.
- Our staff was appointed as Master Trainers for training the staff for Parliamentary as well State legislative elections.
- The faculty of the College is often invited as resource persons where they share their expertise with others.

3.5.3. How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The institution encourages the staff to utilize their expertise in the following ways:

- ❖ The College facilitates the faculty to provide consultancy by granting duty leave, adjustment in the lectures etc.
- ❖ Providing other facilities like internet, photocopy, and library for collecting the required data.
- ❖ The teaching faculty is encouraged to apply for various projects and to carry out research so that they gain the expertise in different areas.

3.5.4. List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The type of consultancy provided depends upon the type of specialization the staff members are expert in. The area of research, the interest of the faculty and the type of consultancy required by the institution/body seeking consultancy decides the consultancy provided by the staff.

- The Department of Konkani, Marathi, Hindi and English normally are involved in consultancy relating to literature and translations.
- The Departments of Economics and Political Science are into promotion of Gender Empowerment by providing consultancy for formation of WSHGs, the Department of Microbiology is consulted for food safety and nutrition.
- The Department of Computer Science conducted a Certificate Course in Web development in ASP.NET and C+ with SQL Server for the 24 students of the Department and generated an income of Rs. 31,200/-. A balance amount of Rs 14,750/- was credited to the College Account.

- The Course of 3 months duration was conducted from 11th Jan 2012. Another Certificate Course on PHP and MySQL from 10th May 2010 to 5th June 2010. 17 students attended the course. The Income generated was 22100/-.
- Mr. Govind Kelkar, faculty of Computer Science, Government College, Khandola and Mr. Philip Rodrigues, faculty of Computer Science, Government College, Quepem developed a software for computerization of Examination results of first year and second year students of Goa University. This software is in use at many of the Colleges in Goa.
- The Library of the College has started four month Certificate course in Library and information Science in Association with State Central Library Panaji from April 2009. The library has produced 95 semi professional students to cater needs of the library dealing hand in Goa. The total revenue generated is Rs. 4,48,000/-.

Being a Government institution the consultancy is provided without charging any fees. Some institutions seeking consultancy from the College staff, provide basic T.A./D.A. to the staff members to provide consultancy.

3.5.5. What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

The College does not generate income through consultancy since the College is a government institution. However permission will be sought from Government to start consultancy and take the College to the next level.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The institution promotes institution – neighborhood – community network through its various committees and cells appointed from time to time. Majority of these activities are organized through NSS Unit. Some of these activities are listed below:

- Blood donation camps
- Visits to Old age home (*Snehmandir in Ponda*) and School for especially able children.
- NSS special camp
- AIDS' awareness program
- Anti-plastic drive
- Distribution of cloth bags
- Swaccha Bharat Abhiyan

The College also undertakes activities through its various Departments and Clubs like health Club and Nature Club. Following are the activities:

- Sensitization rallies
- Street plays on social issues
- Health awareness camps through Yoga and Ayurveda.
- Environmental protection measures like Collection of used batteries
- Awareness on Programmes on
- Tree Plantation
- Free distribution of saplings
- Cleanliness Drive

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?

Student's involvement in various social activities is encouraged and tracked through various cells, committees like NSS and also through Alumni Association.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The College has various mechanisms to track the perception of various stack holders about the performance of the institution.

- ✓ **Through Parent Teacher Association(PTA)**
 - Besides normal meetings of PTA, the Attendance and Examination committees are continuously in touch with the wards of the students.
 - Parents are called to collect the results of academically weak students.
 - Parents are informed in advance if the attendance of the student is poor.
- ✓ **Through Feedback Mechanism**
 - Feedback on the teaching faculty from the students. A set questionnaire is given to the students where in they have to answer on the basis of ranking scale from 1-10 and the questions asked are about teacher's teaching ability, language, use of teaching aid etc. The feedback received is analysed and the same is conveyed to the concerned teachers for necessary action.
 - There is interaction with the Alumni Cell. There are meetings held with the passed out students and their suggestions are sought and implemented wherever possible.
 - There is a Cell for Grievance Redressal Mechanism. In addition the environment in the College is so congenial that the student feels free to directly approach the concerned faculty regarding his/her difficulty.
 - Complaint and Suggestion Boxes are provided at prominent places in the campus which are open periodically and appropriate action is taken.

3.6.4 How does the institution plan and organize its extension and outreach programs? Providing the budgetary details for last four years, list the major extension and outreach programs and their impact on the overall development of students.

The institution organizes its extension activities through various Departments of the institution and its various committees and cells appointed from time to time. At the beginning of the academic year, the different committee plan out their calendar of activities to be carried out for that year. The extension activities are carried out through committees like NSS, Health Club, Nature Club, Women's cell etc.

Most of the extension activities are carried out under NSS committee. The NSS unit of our College receives funds from Government of Goa to carry out regular activities as well as special camp for the College students. The detail of the grants utilized by NSS is given in the table below:

Grants utilized by NSS

Activity	2011-12	2012-13	2013-14	2014-15	2015-16
Regular funds	28,006.00	20,057.00	6795.00	33877.00	51399.50
Funds for special camp	52,352.00	928.00	Nil	25834.00	36900.00

Some of extensions activities carried out by the various committees of the College are:

- Free distribution of plant saplings
- Anti plastic drive by distributing free cloth bags
- Collection of empty milk packets for recycling
- Blood donation
- Swacch Bharat Abhiyan
- Awareness drive on diseases like AIDS and Cancer
- EPIC Drive
- Inclusion Drive for vulnerable and marginalized sections.
- Entrepreneurship Development Programme

The students are benefited by these various activities. They become more informed, enlightened and this helps them in becoming better citizens of the country.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

Participation in NSS is voluntary. The students are encouraged to undertake various extension activities. For the first year students, in the beginning of the academic year, there is an orientation programme where in they are explained the importance of the extension activities. They are also informed about how

opting for NSS will not only make them eligible for grace marks for the examinations, but it will also help them to undertake humanitarian works.

For semesters V and VI students there is compulsory Project work wherein they are motivated to take research based projects. This satisfies dual goal:

1. The students interact with the surroundings, locality, people and thus inculcate the spirit of social service.
2. The data collected and analyzed also helps in understanding some of the community issues. For example the project work based on Women self-help groups, or functioning of Banastarim village market, or socio-economic wellbeing of motorcycle pilots in Goa has helped the students, as well the institution in creating the data base for further studies on social issues.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The College promotes interests of the students from underprivileged and vulnerable sections of the society by undertaking various measures. Few highlights:

- Orientation is given to the first year students on the various schemes given by the Government such as post matric scholarship to OBC, ST/SC, bursary scheme, Students Aid fund etc.
- These schemes are widely popularized among the students.
- The College facilitates students to avail these schemes by forming a committee. This committee distributes the forms, instructs the students on how to go about filling of forms and required documents to be attached, etc. This Committee, on a stipulated date, collects the forms from the students and forwards it to the Government on behalf of the students.
- The College also has SC and ST cell. This cell from time to time addresses the needs of the SC and ST student community.

3.6.7. Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement student's academic learning experience and specify the values and skills inculcated.

The exposure to extension activities has provided an insight to the students on various problems and issues in the society and students' role and responsibility towards solving them. It also makes the students more humane and compassionate. It creates in them a sense of oneness. Various activities of NSS teach the students importance of teamwork. It also inculcates feeling of patriotism.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The involvement of the community is encouraged by the institution through various committees like NSS, Health Club and Nature Club. Individual staff members and their Departments also involve the people in the neighborhood and encourage community participation through various activities.

Activities ensuring involvement of the community

- Pink ribbon program
- Malaria awareness program
- Training program on “Tackling Women’s Woes through Ayurveda”
- Workshop on TB prevention
- Workshop on Nutrition
- Free distribution of cotton bags by NSS in collaboration with Marcel Panchayat
- Rally and campaigns on gender issues.
- Street plays for local villagers on social issues like corruption, election, water conservation and women issues.
- Gender awareness programs
- Workshop on Speak up against Violence behind closed doors.
- Medical camps for people
- Distribution of free plant saplings to the community
- Visits by the doctors to benefit the local people.
- Summer camps for the school children
- Visit to old age home for interacting with them
- Visit to specially able children’s school
- Cleanliness Drive organized by Department of Chemistry
- Well water Analysis in the surrounding locality of the College by Microbiology Department

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The College maintains constructive relations with the following institutions:

A) Government Departments:

- Election Commission
- Department of Social Welfare
- Primary Health Centre, Betki
- Goa University
- Central library
- Village Panchayats
- GIPARD (Goa Institute of Public Administration and Rural Development)
- National Institute of Oceanography
- Police Department
- Indian Council for Agricultural Research

- Goa Medical College
- ELA Farm, (ICAR)
- Goa Pollution Control Board
- Department of Science and Technology
- Department of Information of Technology
- Goa State Aids Control Society
- Institute Menezes Braganza

B) Non-Government Departments:

- Sesa Goa (Vedanta)
- Syngenta India Ltd.
- Vergo Pharma
- Savoi Plantations
- MAARG (NGO for Transport regulation)
- Rotary Club
- Red Ribbon Club
- Sangath (NGO)
- Art of Living Foundation
- Matruchaya (Orphanage home)
- Sneh Mandir (Old Age home)
- State Bank of India

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The students of the College have won several prizes and awards in various competitions on themes which are oriented towards social cause. Our students have actively participated in elocutions drama and street play competitions and have brought laurels to the College. For Instance the students of the College participated in the street play competition organized by Office of Chief Electoral Officer in association with Government College Quepem to commemorate National Voters Day in January 2014, and secured third place for the same.

3.7 COLABORATION

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The College faculties collaborate and interact with different research institutions and industry as and when necessary. The Department of Microbiology has collaboration with ICAR. Department of Chemistry has eshtablished alliance and interaction with Syngenta, Deccan chemicals, Vergo pharma and NIO. Geography Department has collaboration with Smt. Parvatibai Chowgule College of Arts and Science, Margao. Department of

Commerce collaborates with Goa Chamber of Commerce and Industry. Department of Political Science collaborates with GIPARD.

These linkages and interactions enable the staff and students to work on their research activities. The students have accessibility to the libraries of these institutions. The eminent persons working in these institutions are often invited to deliver talks on relevant topics to the students. Study visits to these institutions increases the knowledge of the students as they get practical insight in various aspects dealings with our lives. Some of these collaborations have also resulted in students getting placements in these institutions after they complete their studies.

3.7.2 Provide details on the MOUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/corporate (corporate entities) etc. And how they have contributed to the development of the institution.

The College has signed a MOU with GIPARD, Old Goa, and various activities are planned in collaborations with each other. The collaboration aims to promote common interest for training, research and allied activities between two organizations through mutual sharing and cooperation. The MOU provides a framework of cooperation and facilitate collaboration between the two institutions to meet the broader goal of training and capacity building of government employees, elected representatives and civil society. The MOU will promote collaborative academic exchange through faculty, students, lectures and publications.

The Department of Physics has collaborated with Goa Medical College, Bambolim. Goa Medical College has started various Allied Health Science Courses from the Academic Year 2013-14, one of which is Bachelor of Optometry. The Department of Physics collaborated with Goa Medical College (GMC) by shouldering the responsibility of conducting the practical in Geometrical Optics & Physical Optics for the students of First year Bachelor of Optometry of GMC since 2013-14. Practical examinations for these students are also conducted at Department of Physics on behalf of Goa University.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment/creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/library/new technology/placement services etc.

There are various benefits of industry institution community interaction which the College has been able to avail:

- ✓ These interactions have enabled the Science Departments in creating opportunities for summer internship programs for the students.
- ✓ It has widened the scope for work placements for the students after they complete their graduation.

- ✓ It also facilitates field trips, study visits by the students of this College to these institutions.
- ✓ College linkage with various funding agencies like UGC, ICSSR has also benefitted the staff in getting funds to carry out various research activities.
- ✓ Department of Chemistry has collaboration with Industries like Syngenta, Deccan Chemicals and Vergo Pharma

3.7.4 Highlight the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the College during the last four years.

1. A one day Seminar was organized by the College on the topic ‘The Need of Swatchh Bharat – Nital Goem’ on 27th February 2015. The Seminar was inaugurated by honourable Governor of Goa, Smt. Mridula Sinha. The eminent speaker for the Seminar was Mr. Martin Ghosh, Site Manager of Syngenta India Ltd.
2. A two day Seminar funded by UGC was organized by the Department of Political Science on 8-9th July, 2016. The theme of the Seminar was ‘**Women headed Panchayats and Empowerment of Women at Grassroots**’. The Seminar was attended by 80 participants, and included women sarpanchas, NGO members, WSHG members, and faculty from different Colleges and students. The Speaker for this Seminar was Dr Radhika Nayak, Chairperson of Ponda Municipal Council and Principal of Dempo College, Panaji. Environmentalist and recipient of ‘*Vasundhara Sanman*’, Rajendra P Kerkar also addressed the participants. He is a member of the reconstituted National Wildlife Board, which is headed by Prime Minister Narendra Modi as a Chairman. Mr Kerkar is also the secretary of Mhadei Bachao Abhiyan and convenor for Goa river conservation network.
3. Soter D’Souza engaged one session in this Seminar. Soter D’Souza, the Executive Coordinator for the Department of Governance of the Council for Social Justice and Peace (CSJP), is also associated with Peaceful Society at Madkaim, Ponda and is Voluntary Director of the organisation's 'Centre for Panchayati Raj'. The organisation works towards promoting Gandhian Alternatives in community development. D’Souza emphasized on more participation of women in Gram Sabhas as Gram Sabhas are school of politics. He noted that there can be no empowerment without rights and no rights without empowerment.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MOUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated-

The College has signed MOU with GIPARD (Goa Institute of Public Administration and Rural Development), Old Goa.

The linkages have benefited the students of the College. Some of our students have been employed in these organizations. Linkages with NGO's and social organizations and various government Departments have facilitated the implementation of the outreach and community developed programs.

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

- Various guest lectures are planned at the beginning of the academic year. The professionals are invited to deliver talks and workshops for the students.
- Collaboration with UGC and ICSSR has helped in funding of minor, major research projects.
- Interaction with institutions like IGNOU has facilitated post-graduation studies for the needy students.

Any other relevant information regarding Research, Consultancy and Extension which the College would like to include.

- The Department of Microbiology conducted Blood Grouping of staff and students of the College. It also carried out testing of well-water of surrounding areas of the College for its portability.
- The College conducted programme on National Deworming Day wherein 300 students in the age group of 17 to 19 were administered Albendazole 400mg on 10th February, 2016.
- The College regularly organizes for fogging in the College premises. The Department of Microbiology also provides guidance on water pollution in river Mandovi and how to tackle flower waste management.
- Students of Chemistry every year, participate in the quiz conducted by Association of chemistry teachers Goa, poster and oral presentation competition on T.Y. B.Sc project organized by Goa University and bring laurels to the Department.

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

The College is situated on an area of 12625 sq. mts (approx 3 acres). There are three Blocks a) Arts and Commerce Block b) Science Block c) Recreational Block

❖ Arts and Commerce Block comprises

- 1) Twenty six classes with ICT facility.
- 2) Laboratories
 - Language
 - Commerce
 - Information Technology (IT)
 - Maths
- 3) Two air conditioned staffrooms for arts and Commerce
- 4) Conference Room
- 5) Examination Section duly air conditioned.
- 6) Examination Centre
- 7) Project Discussion Room
- 8) Girls Common Room
- 9) Boys Common Room
- 10) Foyer
- 11) Flag hoisting area
- 12) Stilt area: Vehicle parking for staff.

Science Block comprises

- 1) Four ICT enabled classrooms
- 2) Laboratories
 - Chemistry
 - Microbiology
 - Computer Science
 - Geography
 - Psychology
 - Physics
- 3) Staff Room
- 4) Library
- 5) Research Centre
- 6) Seminar Hall with four air conditioners.
- 7) Office administration and accounts
- 8) Principal's Cabin
- 9) Open Amphitheatre
- 10) Rock Garden

- ❖ **Recreational Block comprises of**
1) Open Cafeteria 2) Gymnasium 3) Multipurpose Hall.

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The Institution independently cannot have policy for creation and enhancement of infrastructure facilities being a government College however Department of Higher Education (DHE), Government of Goa creates adequate infrastructure facilities for effective teaching and learning as and when situation demands. The old Science Block was constructed by Public Works Department (PWD) and the new building of Arts and Commerce Block was constructed by Goa State Infrastructure Development Corporation (GSIDC) both government Departments.

The College has sufficient facilities for present strength of 600 plus students. Initially in 1989, the College had built in area of 2555 m². In the year 2005, there was expansion to accommodate newly formed Science Block. In the year 2015, two new Blocks of total build-up area 4000 m² housing Arts and Commerce building and Recreational spaces like Open Cafeteria, Gymnasium and Multipurpose Hall have been created to cater the growing number of students.

4.1.2 Detail the facilities available for

- a) **Curricular and co-curricular activities - classrooms, technology enabled learning spaces, Seminar Halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**
 - b) **Extra-curricular activities - sports, outdoor and indoor games, Gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**
- a) **Curricular and co-curricular activities**
- **Classrooms:**
The College has 30 ICT enabled class rooms of which 26 belong to Arts and Commerce Block and 4 belong to Science Block.
 - **Laboratories:** Eleven laboratories in the premises.
Chemistry: 02 laboratories, 1) Inorganic/Organic, 2) Physical /Analytical, Project Room, Preparation Room. The laboratories are equipped with following instruments/equipments: UV-Visible

spectrophotometer, UV Chamber, Microwave oven, Two electronic balances, Magnetic Stirrers, Heating Mantle, Fume Hood, Exhaust fans, Vacuum Pump, Centrifuge Machine, Incinerators, Hot air Oven, Potentiometers, pH Meters, Conductometers, Polarimeter, Distillation unit, Two refrigerators, Kipps apparatus.

Microbiology: 01 Laboratory, Project Room, Laminar Flow, Centrifuge Machine, Shaker, Oven, Incubator

Computer Science: 02 laboratories
Twenty six Computers with necessary software and accessories

Geography: 01 laboratory,

Psychology: 01 laboratory,

Physics: 02 laboratories, 01 Dark Room 6 Computers, 1 Printer & 1 Scanner, 3KVA Inverter for power back up LCD Projector with screen, AC Susceptibility Measurement System (research level Instrument) Function Generators, Digital CRO, Spectrometers, Michelson's Interferometer Polarimeters, Photometers, He-Neon laser experimental setup expEYES:- Basic learning kit, Fire Bird V:- Robotic Research Platform, Origin. Graphics software, D.O.S.E. - Data logger of Science Experiments.
All the Laboratories are equipped with ICT facility.

- ✓ Specialized facilities and equipment for teaching, learning and Research:
 - LCD projectors with screens, laptop, software
 - Dust free environment created by replacing old black boards with
 - Ergonomically designed furniture in the classrooms.

- ✓ Technology enabled learning spaces:
 - ACT enabled classrooms.
 - Four Seminar Halls provided with AC's and LCD projectors.
- ✓ Learning and Research
 - UGC sponsored resource center for the staff and students.
 - Konkani Department and Political Science Department have established their Research centers

- ✓ **Library** : Open access to well-equipped Library.

b) **Extra Curricular**

The following facilities are available:

- NSS unit

- Abhyas Mandal
- Bus facility-For students and staff
- Multipurpose Hall- to organize intramural, on stage performances
- Seminar Hall-audio video activities, presentations, talks
- Consumer co-operative store.
- Cafeteria
- Open Amphitheatre

- Sports:
 At present the College is utilizing 1) Khandola village panchayat ground, 2) Marcel-Orgao panchayat ground, 3) Sateri ground and 4) Shantadurga Temple ground opposite College for outdoor sports activities.
 Indoor sports activities like Table Tennis, Badminton, Judo, Taekwondo and Chess are engaged in multipurpose Hall.
 Gymnasium- equipped with non motorized tread mill, exercise cycle, AB apparatus, Pulley and medicine balls for staff and students.

4.1.3 How does the Institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The Institution independently cannot have policy for creation and enhancement of infrastructure facilities being a government College however Government of Goa through Directorate of Higher Education (DHE), creates adequate infrastructure facilities in line with its academic growth. Prior to the construction of new Block the lectures were conducted in the area housed under the higher secondary school building which shares the same wall. There was scarcity of space then, this hindrance was surmounted by expansion to form a new Block which was functional in June 2005.

Thereafter in the year 2013, Government sanctioned the construction of two new Blocks, the only structures with green certificate by architectural agency GRIHA. These blocks were functional for the use of stakeholders in 2015. The College has considerably improved and upgraded the Science laboratories, enhanced reading facility in Library, procured new books and Journals. Internet is made available to the Students/staff.

With the introduction of Post graduate programme in Chemistry, it is proposed to expand the Department with Post graduate laboratory, Research Laboratory and Instrumentation Room at the earliest.

Master plan of the Institution/campus enclosed in annexure 4.1

Table 4.1:

Amount spent on the development done during the last four years

Year	Infrastructure	Furniture	Amount Spent
2012 - 2016	Rs 22 crores	Rs 3 Crores	Rs 25 Crores with default liability of three years

4.1.4. How does the Institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

- The College premises have facility for physically challenged students on the ground floor of both the Blocks.
- New Block is equipped with ramp. Provision of western closet and wheelchair is made for students with physical disabilities.
- The physically challenged students are rendered personalised service by the Library staff like issue of Library cards and books
- The Library has plans to extend the facilities to the ground floor of the Commerce and Arts Block for physically challenged students.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel Facility - Accommodation not available and it is not required as the students are from the nearby areas. However paying guest rooms facility can be availed by the staff and the students.

Recreational facilities - Open Amphitheatre, Gymnasium, Seminar Hall, Multipurpose Hall, Cafeteria.

Computer facility including access to internet in hostel- N.A.

Library facility in the hostels - N.A.

Facilities for medical emergencies - Doctor on call is available, Health Centre at a distance of 5 kms. Medical Room for emergency with first

aid facility. First aid kits in sports and Science laboratories are available.

Internet and Wi-Fi facility -Departments like Chemistry, Microbiology, Computer Science, Physics, Geography and psychology and the Library, housed in Science Block are provided with internet and Wi-Fi.

Available residential facility for the staff and occupancy:

There are no staff quarters on the campus but Government quarters are available for teaching and non teaching staff. However, the house rent allowance has to be surrendered by the one who avails the facility.

Constant supply of safe drinking water -

Water purifiers are installed at prominent places in the College where the potable water is available.

Security -

- Security personnel is on duty 24X7.
- The premises are under CCTV surveillance.
- The students are scanned for their identity cards at the gate.
- Students are scrutinized for their fee receipts/I cards, during exams.
- The new building has the fire security system with sensors.
- The Science laboratories are equipped with the fire extinguishers as well as emergency exits
- College has two emergency exits.
- Police patrolling around the premises also controls the security of the College.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

1. **On the campus:** - Doctor on call is available, Medical Room for emergency with first aid facility. First-aid kits are available in sports and Science laboratories.

2. **Off the Campus:**

College has understanding with Primary Health center run by Government at a distance of 5 km and whenever issues concerning to the health of students and staffs arise, they are referred to this Health Centre. College car as well as the 108 ambulance service of government is available in case of medical emergency. Staff is entitled to avail the reimbursement facility from Government of Goa, subject to the condition that the government run hospital doctor is consulted.

4.1.7 Give details of the Common Facilities available on the campus -spaces for special units like:

Common facilities available on the College campus are:

IQAC- Yes,

- ✓ IQAc makes vital decisions with regard to the development of College. During the Committee meeting held on 20/08/2016, suggestion made are,
- ✓ Master project for manufacturing of the paper bags in large.
- ✓ Paper shredding machine sponsored by one of the members of IQAC representing the community.
- ✓ Set up of Solid waste converter to tackle the organic waste.
- ✓ Start consumer cooperative stores by the Department of Commerce.

Grievance Redressal Cell- Yes,

- ✓ Grievance boxes are installed outside principal's office, Library, in Science, Arts & Commerce Block and in the cafeteria.
- ✓ The boxes are opened periodically and the grievances are redressed in presence of principal.

Women's Cell-Yes,

- ✓ The issues related to women are addressed by this cell
- ✓ Talks on awareness are held.

Counseling and career guidance - Yes,

- ✓ Students mentoring program for our College students.
- ✓ Professional counselor who visits once a week is appointed.
- ✓ Talks by eminent personalities on career guidance are conducted.

Placement unit- Yes,

- ✓ The College has a well organized placement unit.
- ✓ Placement interviews, job fair, are held

Health Centre - Yes,

- ✓ On the campus medical Room is available for first aid and emergencies are referred to Primary health Centre.
- ✓ There is provision of Doctor on call in emergency.

Cafeteria- Yes,

- ✓ Provides good hygienic meals, snacks for the staff and students at subsidized rate.

Recreational spaces - Yes,

- ✓ Gymnasium for staff and students, Multipurpose Hall for indoor activities.
- ✓ Amphitheatre for external activities like drama, music and art.
Safe drinking water facility – Yes,
- ✓ Water purifiers are installed near classes and staffrooms providing safe drinking water on each floor.

4.2. Library as a Learning Resource

4.2.1 Does the Library have an Advisory Committee? Specify the composition of such a Committee. What significant initiatives have been implemented by the Committee to render the Library, student/user friendly?

Yes. The College Library Advisory Committee consists of following members:

Mr. Anandan Mastan	-	Librarian
Dr. Christina D'souza	-	Member
Ms. Marina Albuquerque	-	Member
Ms. Ranjana Sawaikar	-	Member

The College Library Advisory Committee has taken number of initiatives to make the Library user friendly. The following functions are executed by the Committee

- The Committee advises the Library-staff for proper up keep of the Library.
- Institutes “ best reader award” to cultivate the reading habits in students
- It has initiated “demand slip system” so that students can place demand for the required book.
- It invites and acts on suggestions/ complains from staff and students for making the Library student friendly.
- The librarian with the help of Library Committee conducts book exhibitions and book display programs on special occasions.

4.2.2 Provide details of the following:

- Total area of the Library -500 Sq.mts
- Total seating capacity- 100
- working hours - 8.45am to 4.15 pm on all days
- Layout of the Library- the layout of the Library is based on an open plan comprising designated spaces for IT zone, Reading Room, Reference, Reading space for teachers etc.

4.2.3 How does the Library ensure purchase and use of current titles, print and e-journals and other reading materials?

Specify the amount spent on procuring new books, journals and e-resources during the last four years.

- Each Department is committed to enhance the resources of Library as and when the syllabus or the subject is updated by the university.
- The staff recommends the text books, reference books, journals and other reading material through proper requisition format duly signed by the Head of the Department and Principal.
- The order is placed after the same is counterchecked, scrutinized by the librarian and the Library Committee.

Table 4.2

Amount spent on new books, journals & e-resources for the last 4 years

Library holdings	Year 2011-12		Year 2012-13		Year 2013-14		Year 2014-15	
	Number	Total cost	Number	Total cost	Number	Total cost	Number	Total cost
Text books	413	115854	466	141687	127	30243	215	62918
Reference books	315	157509	287	110069	210	64016	131	90592
Journals/ periodicals	20	40699	09	8425	-	-	21	44913
e-resources	-	-	2100-jr 50000- books	5000	-	-	-	-
-CD-ROM	30	Free of Cost	40	Free of Cost	40	Free of Cost	40	Free of Cost
Project reports	24	-	24	-	41	-	37	-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the Library collection?

- OPAC - Yes
- Electronic R.M packages for e-journals- **N-list** is providing about 6000 e-journals accessing facility.
- Federated searching tools-Yes (Free resources)
- Library website -Yes (www.gcasckLibrary.webs.com) also part of College website (www.khandolaCollege.edu.in)
- In house/remote access to e-publications- Yes
- Library automation- Yes, in progress
- Total number of Computer for public access - 11
- Total number of printers for public access - 02
- Internet band width/speed GBBN - Download speed 17.4 Mbps, Upload speed 11.49 Mbps
- Institutional Repository- At present Library having in house publication section of own College publications are displayed for reading and referring.

- Content management system for e-learning – Yes (MOODLE)
- Participation in R.S. OF INLIBNET – Yes

4.2.5 Provide details on the following items:

- Average number of walks-in – 125 per day
- Average number of books issued/returned- 75 per day
- Ratio of Library books to students enrolled -1:10

Average number of books added during last three years-

Table 4.3:

No of books added during last three years

Academic year	Books
2013-14	503
2014-15	346
2015-16	562

- **Average number of login to OPAC:** Presently the Library is using the E-granthalaya software.
- **Average number of login to e-resources-** 11 per day (Usage of UGC internet resource Centre)
- **Average number of e-resource downloaded/printed** – Nil
- **Number of I.L training organized-** Beginning of every academic year, Library user education program is conducted. Guest lectures on “Open Access to Knowledge and Information” are also arranged for students.

Details of Weeding out of books & other reading materials: Every year internal Library stock verification is done. The books which are mutilated/obsolete nature are taken separately for weeding out and housed separately in the Library

4.2.6 Give details of the specialized services provided by the Library:

- Reference -YES
- Reprography -YES (reprographic machine installed)
- ILL- P.G Students, Ex-students, Distance Learners are allowed to refer the Library resources
- Information deployment and notification: Yes (Informing new Arrivals through CAS)
- Download-YES
- Printing-YES
- Reading list Bibliographical-YES
- In house /remote access to e-resources: YES
- User Orientation and awareness -Yes
- Assistance in searching Database-YES

- INFLIBNET-facilities -YES (N-List)
- Support provided by the Library staff – Active help rendered to students and staff for proper utilization of Library resources.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the College.

- Library has Open access system to find the books.
- The Library staff is co-operative and assist to look out for inaccessible/new books and reference materials.

4.2.8 What are the special facilities offered by the Library to the visually/physically challenged persons? Give details.

- The physically challenged students are approached personally by the Library staff.
- The issue of Library cards and books required by them is carried out in their classrooms itself.
- The Library plans to extend the Library facilities to the ground floor of new Block so that it is accessible to physically challenged students.

4.2.9 Does the Library get the feedback from its users? If yes, how is it analysed and used for improving the Library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the Library services?)

Yes, a Feedback/Suggestion Box is installed in the Library. Twice in a month the box is opened. A register is maintained for noting down the feedback. It is discussed in the meeting with the Library Committee and corrective actions are taken as and when required.

4.2 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the Institution.

The Department of Computer Science has the following hardwares

- (a) Computers: 40 machines

Table 4.4
List of Desktop Computers with description

Department	Description	Units
Computer Science	1. HP PRO 8300 with intel core i7-3700 CPU @ 3.40 GHZ, 4 GB RAM, 500 GB HD	3
	2. DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	14
	HCL infinity MA330 PRO with INTEL CORE 2 DUO CPU E8400 @ 3.00 GHZ, 2GB RAM, 160 GB HD	1
	HCL INFINITI PRO BL1280 with INTEL CORE 2 DUO CPU <u>E6850@3.00GHZ</u> , 2 GB RAM, 160 GB hard disk.	5
	Zenith Business PC , Pentium D, Dual Core@ <u>3.00GHZ</u> , 2 GB RAM, 160 GB hard disk, 17" Monitor	3
Physical education	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	1
Microbiology	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	1
Geography	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	1
Psychology	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	1
Chemistry	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	1
For NAAC work	DELL Dual core 4GB Ram, 500 GB Hard disk, Windows 10.	1
Commerce	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	1
Physics	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	6
Library	HCL with INTEL CORE 2 DUO CPU @ <u>3.00GHZ</u> , 2 GB RAM, 160 GB hard disk.	1
Office (Administration / Accounts) Desktops	DELL optiplex with INTEL Core I3 CPU @ 3.1GHZ, 4 GB RAM, 300 GB HD	2
	HCL, Intel core i3@ 3.10 GHz , 2.00GB Ram, 500 GB HDD, 18" LCD Monitor	1
	HCL-pentium	1
Exam section	HCL INTEL CORE 2 DUO@3.00GHZ, 2 GB RAM, 230 GB hard disk.	2
Principal's Cabin	Dell Optiplex 990 intel core i7, CPU@ 3.40 GH HZ, RAM 4 GB, 64 bit O.S., HDD 500GB, 18" LCD Monitor	1

- (b) Computer-student ratio: 1:6
- (c) Stand alone facility :26 machines
- (d) LAN: yes
- (e) Wi-Fi facility: yes
- (f) Licensed software: yes
- (g) Number of nodes/Computer with internet facility: 3

4.3.2 Detail on the Computer and internet facility made available to the faculty and students on the campus and off-campus?

- The Departments such as Microbiology, Physics, Chemistry, Geography psychology and Computer Science have been provided with Computer and internet facility.
- The College has plans to apply for dedicated broadband BSNL lines for the staff and students.
- Students have been provided with Computer and laptops under cyber age scheme at their school level, so the students are quite Computer savvy.
- Teachers are provided with interest free loans by the Government for purchasing laptops of any configuration.

4.3.3 What are the Institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The Institution adopts strategies for deploying and upgrading IT infrastructure keeping pace with changes in IT through procedures laid out by Government of Goa and Department of Information Technology (DOIT).

4.3.4 Provide details on the provision made in the annual budget for procurement, up-gradation, deployment and maintenance of the Computers and their accessories in the Institution (Year wise for last four years)

The College has provision for procurement, up-gradation, deployment and maintenance of the Computers and their accessories. Our College is governed by the Government of Goa policies. No specific allocation for procurement, up gradation, deployment and maintenance of the Computers and their accessories. Purchase and maintenance is done from relevant budget head.

4.3.5 How does the Institution facilitate extensive use of ICT resources including development and use of Computer-aided teaching/ learning materials by its staff and students?

- The College Seminar Hall is ICT and AV equipped where lecture sessions are carried out. All the classrooms are ICT enabled and faculty use these facilities for lectures as well as presentation by the students.
- Computer Science laboratories have ICT facility where offline lecture series and resources are made available to students in the form of presentation.
- Library supports students with INFILIBNET, NPTEL lectures in spoken tutorial project implementation.
- Offline and online videos are made available to the Chemistry students for clear understanding of concepts.
- Online courses on “spoken tutorials” are held by the Department of Computer Science in collaboration with IIT, Mumbai.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the Institution place the student at the Centre of teaching-learning process and render the role of a facilitator for the teacher.

- The Seminar Hall of the Institution is equipped with audio, video, ICT facility.
- Library online resources are accessed topic/subject wise by the students.
- Department of Computer Science conduct online lectures through NPTEL network.
- Online courses on “spoken tutorials” are held by the Dept of Computer Science in collaboration with IIT, Mumbai.
- Students are evaluated on the basis of ISA where one assessment can be any mode other than the written test, which is usually on

- 1) The power point presentations,
- 2) Assignments on topics which requires web searching,
- 3) Research projects based on, online journals.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes. Directly via N-List.

4.4 Maintenance of Campus Facilities

4.4.1 How does the Institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The Institution being a government College, is allocated budget under plan and non plan heads. The plan and non plan budget and expenditure statement of last four years is as presented in the tables.

Table 4.5
Expenditure Statement (Non Plan)

Major Head/ Minor Head & Sub Detailed Head	2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.
2202-General Education 03- University & Higher Education 103- Govt. Colleges &Institution 03- Govt. Colleges (NONPLAN)										
01-Salaries	37000000	35969456	36000000	31236460	39600000	39500000	42200000	42000000	45000000	43754681
02- Wages	280000	219308	2900000	224610	600000	548745	730000	687405	495000	384958
11-T.E.	50000	644	55000	-	25000	3210	25000	-	10000	8492
13- Office Expenses	1000000	149879	500000	172608	300000	188151	300000	238686	900000	852124
21- Supplies & Materials	1100000	419363	800000	518427	500000	213109	500000	442720	700000	503057
26- Adv & Pub	50000	30545	70000	67408	25000	13482	25000	9216	28000	15750
28- Prof & Sp.services	1600000	142000	30000	-	-	-	20000	18750	40000	32250
Total	-	-	-	-	-	-	-	-	-	-

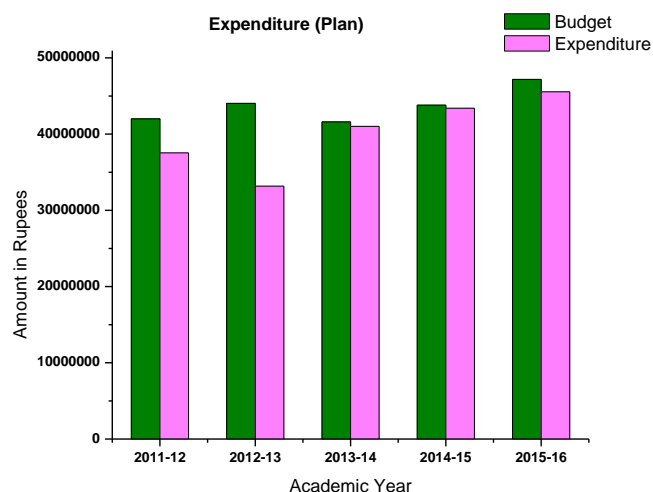


Figure 4.1 Budget and expenditure (plan) for last five years

Table 4.6
Expenditure Statement (Plan)

Major Head/ Minor Head & Sub Detailed Head	2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.
2202										
03										
101										
01 (PLAN)										
01-Salaries	37000000	35969456	36000000	31236460	39600000	39500000	42200000	42000000	45000000	43754681
02-Wages	280000	219308	2900000	224610	600000	548745	730000	687405	495000	384958
11-T.E	50000	644	55000	-	25000	3210	25000	-	10000	8492
13-Office Expenses	1000000	149879	500000	172608	300000	188151	300000	238686	900000	852124
21-Supp. & Material	1100000	419363	800000	518427	500000	213109	500000	442720	700000	503057
26-Adv. & Publicity	50000	30545	70000	67408	25000	13482	25000	9216	28000	15750
28-Prof. & sp. Ser.	1600000	142000	30000	-	-	-	20000	18750	40000	32250
34- Scholarship & Slip	-	-	-	-	-	-	-	-	-	-
50-Other Charges	-	-	-	-	-	-	-	-	-	-
2202	630000	562027	-	-	-	-	-	-	-	-
03	300000	49974	3343000	947249	550000	549755	-	-	-	-
800	-	-	200000	-	-	-	-	-	-	-
07 (Plan) (A)										
UGC										
01-Salaries										
21-Material & Supplies										
13-Office Expenses										
50-other Charges	-	-	140500	-	-	-	-	-	-	-
Total	42010000	37543196	44038500	33166762	41600000	41016452	43800000	43396777	47173000	45551312

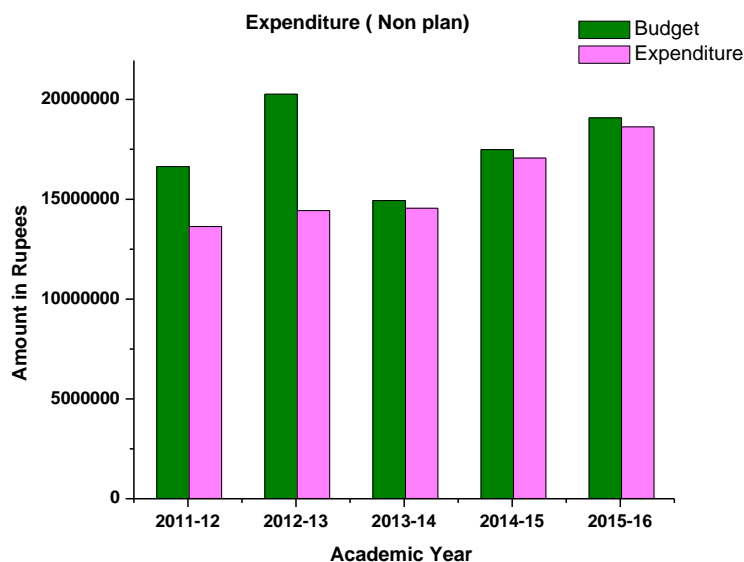


Figure 4.2 Budget and expenditure (Non plan) for last five years

4.4.2 What are the Institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the College?

- Infrastructure, Maintenance and Development Committee, suggests measures for the safety, development and maintenance of old College infrastructure and also measures to dispose off outdated and unused items.
- Financial provision is made by government of Goa for maintenance of infrastructure and other facilities.
- Default liability period for three years from 2015-16 is with GSIDC for the maintenance of infrastructure and the like.
- Maintenance of laboratory equipments in Chemistry and Microbiology Department is annually carried out by Equiptronics Ltd.
- Cleanliness of the campus is entrusted and outsourced to agency ECO clean.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

- Periodical monitoring is carried out as mentioned in the instruments manual by the service personnel in supervision of the Head of the Department.
- Certain equipments like reprographic machine is serviced as per the annual maintenance contract with the supplying company.
- Calibration of the equipments is done during the practicals and Practical examinations.

- Equiptronics India Ltd conducts annual visits at the Chemistry and Microbiology Departments to repair the non-working instruments.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- The Electricity Department of Goa government supply and maintain the power supply to our College.
- It checks the smooth supply during the schedule of examinations and important functions.
- College has a battery backup generator which is constantly monitored and serviced to handle power failures.
- Two inverters are installed one in Physics Department and other in office to safeguard the erratic power supply.
- The Computers are connected to the Un-interrupted power supply (UPS).
- Sensitive instruments are backed with voltage stabilizers to take care of fluctuations in voltage.
- The College has underground tanks as well as over head tanks to maintain constant water supply.
- There is facility of rain water harvesting tank in the new building and this water can be used during deficit supply.

Any other relevant information regarding Infrastructure and Learning Resources which the College would like to include.

- The Commerce and Arts Block meets all the requirements of green building as per the report submitted by GRIHA (Annexure X).
- This building has water harvesting tank, the bricks used for construction are environment friendly. The building is well ventilated.
- Incinerators installed for disposal of sanitary pads in both the Blocks.
- Public address system for communication.
- In the new building the arts and Commerce staffroom and the examination are air conditioned.

CRITERION V

STUDENT SUPPORT AND PROGRESSION

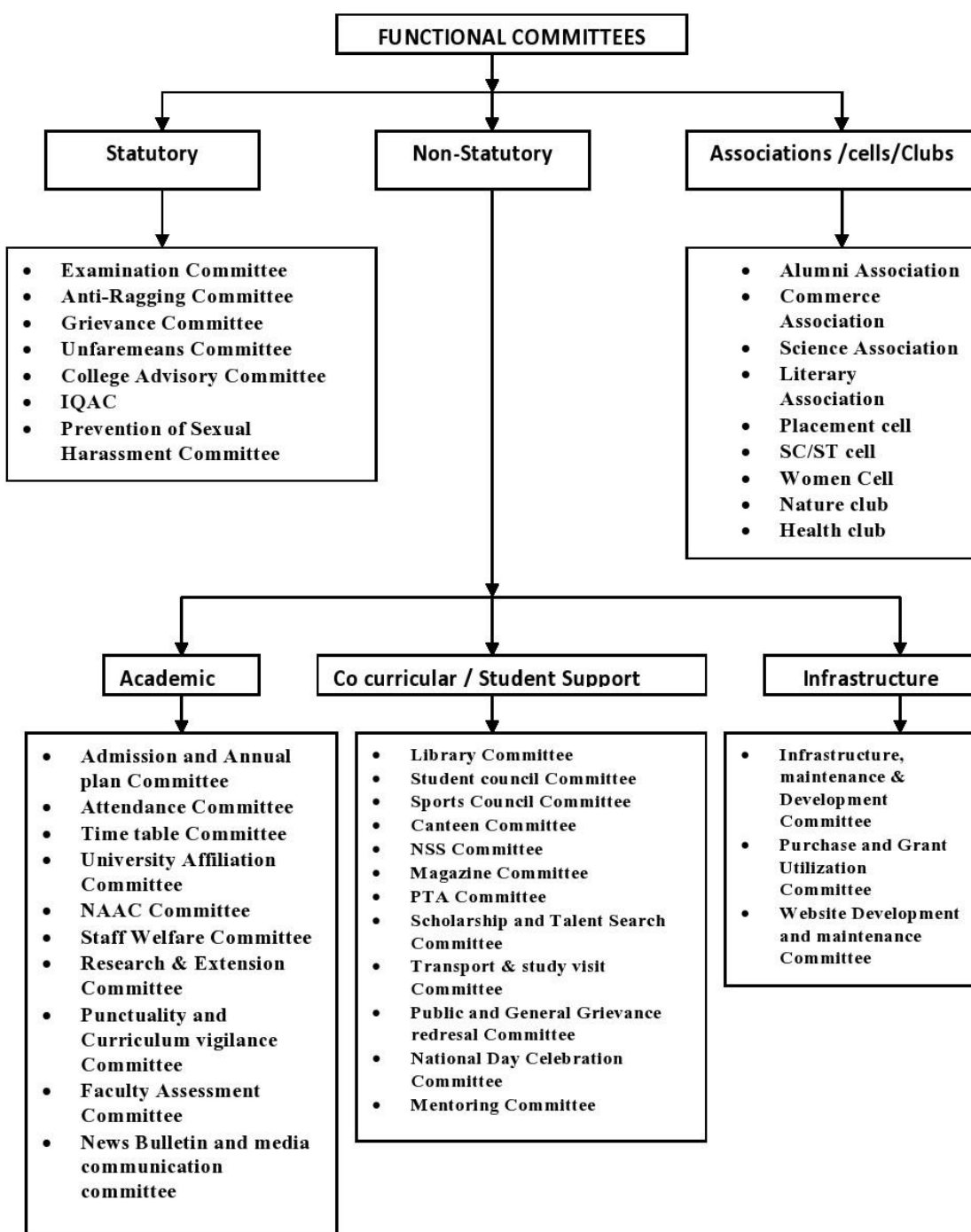
5.1 STUDENT MENTORING AND SUPPORT

5.1.1. Does the Institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the Institution ensure its commitment and accountability?

Yes. The College publishes its updated prospectus annually. The information provided to the students through the prospectus is:

- Vision and Mission Statements, Goals and Objectives
 - Our Strengths
 - Principal's Welcome Note
 - Introduction
 - Location
 - Academic Performance
 - Faculty Profile and Non-Teaching Staff
 - Facilities in the College
 - Eligibility for Admission
 - Programs of Study (B.A., B.Sc., B.Com.)
 - Admission procedure
 - College Rules and Regulations
 - UGC Regulations on curbing Ragging
 - Financial Assistance/Scholarships/Prizes/Medals
 - Scheme of Examination
 - Scheme for Award of Entitlement/Grace Marks
 - Certificate/Add-on Courses
 - Fees for issue of documents
 - Committees and Associations
 - Procedure for reFund of fees
 - Calendar of Events
 - Fee Structure
-
- ❖ The College website www.khandolacollege.edu.in has the following slots:
 - ❖ Home, Academics, Staff, College facilities, Gallery, News and events, Notices, Alumni, Downloads, Admissions, Mission and Vision, Strength , Goals, Objectives and Contact.
 - ❖ The College has extensive mechanism wherein the staff and the students are committed to abide by the duties, rules, regulations, time limit encompassed in the above documents.

- ❖ The Principal and the staff are accountable for any lapses in the system or achievements of the College, and students as well are accountable for implementation of their duties.
- ❖ The information provided in these documents is complied with by constituting following functional committees: Statutory committees are those which are levied by the Goa University and non - statutory committees are those which are levied by the Institution itself.
- ❖ The different constituted committees are in accordance with policy stated in the documents, which help in the smooth functioning of the Institution.



5.1.2 Specify the type, number and amount of Institutional scholarships / freeships given to the students during the last four years and whether the financial Aid was available and disbursed on time?

- The students received the following Scholarships namely:-
 1. Goa Government Scholarship
 2. Bursary Scheme
 3. EBC Scholarship
 4. Scholarship for the Handicapped
 5. Post matric scholarship for Scheduled Tribes, Scheduled Castes, Other Backward Communities
 6. Gagan Bharari Shiksha Yojana
 7. Gagan Bharari Shiksha Yojana for ST

YEAR	SCHOLARSHIP NAME	STATE	CENTRAL
2011-12	Post matric scholarship	01	
	Post matric scholarship ST	21	32
	Minority Scholarship	01	
	Post matric scholarship OBC	54	23
2012-13	Post matric scholarship ST	49	
	Merit Based award	24	
	Post matric scholarship SC		18
	Post matric scholarship OBC	43	81
	Post matric scholarship	01	
2013-14	Post matric scholarship		37
	Post matric scholarship OBC	67	
	Post matric scholarship SC	02	
	Gagan Bharari Shiksha Yojana	05	
	Gagan Bharari Shiksha Yojana ST	02	
	Handicapped scholarship	01	
2014-15	Gagan Bharari Shiksha Yojana	59	
	Merit based award	14	
	Post matric scholarship ST	01	56
	Post matric scholarship		01
	Post matric scholarship SC	02	
2015-16	Merit based award	39	
	Post matric scholarship	54	43
	Gagan Bharari Shiksha Yojana	97	
	Post matric scholarship SC	1	
	Post matric scholarship (FRESH) SC	1	
	Post matric scholarship (RENEWAL) OBC	12	
	Post matric scholarship (FRESH) OBC	59	
	Post matric scholarship (FRESH) ST	78	
	Post matric scholarship (RENEWAL) ST	27	

5.1.3 What Percentage of Students Receive Financial Assistance from State Government, Central Government and other National agencies?

- In Goa, 100% of Undergraduate and Post graduate students pursuing studies avail the benefit of nominal fees, subsidized by the Government.
- Students also benefit from a plethora of scholarships of the state/ central government and other agencies.
- Our Students avail the facility of 50% concession for the bus fare which is implied by Government of Goa.
- The College has the Student Aid Fund where the needy students are provided financial assistance.

5.1.4 What are the specific support services/facilities available for

(1) Students from SC/ST, OBC and Economically Weaker Sections:

The quota structure of the state government is as follows SC =2%, ST=12% and OBC =27% and PH= 3%. The reservation as per the policy of the state government is strictly adhered to.

- The SC/ST/OBC students are identified at the time of admission and a record of the same is maintained.
- Notices are displayed on the Notice Boards and announced in the class rooms urging them to avail of scholarships and freeships instituted by the government and other agencies.
- Apart from the scholarship from government, finances are raised through students Aid Fund and the needy students are taken care of.
- Adoption scheme at personal level of the teaching staff Aids the students to continue their studies or pursue higher studies.
- Prizes are instituted by the staff and alumni for scoring higher marks at the University exams in support of higher education.

(2) Students with Physical Disabilities:

- Pre-Matric Scholarship and Post-Matric Scholarship for Students with Disabilities is sponsored by Ministry of Social Justice and Empowerment, Government of India.
- A class having a student with a physical disability is allotted a class room on the ground floor.
- The new College building has a ramp and a western closet for the differently abled students.
- The College has wheel-chair for students with disability.
- Library books are issued on personal basis.

(3) **Overseas Students: NIL**

(4) **Students to Participate in Competitions:**

- The students are encouraged to participate in competitions and events at various levels.
- Training and practice sessions for cultural activities at College and University level are co-ordinated by Students' Council with the help of the cultural co-ordinator and faculty.
- The Sports Council with the help of Director of Physical Education and special coaches, trains the students for various competitions at College and University level.
- Students are guided for participation in quizzes, debates and elocutions in inter- collegiate competitions.
- Facilities such as Travelling Allowance (TA) and transport are provided. The absence in College is condoned whenever the student represents College for any competition.
- Faculty always accompanies the students for the competitions and events outside the campus. The prize money is shared by the students.
- Goa University and Directorate of Sport Authority of Goa provide monetary help for refreshments and daily allowance.
- Series of Workshops on Theatre, Anchoring, Tiatr and Rangoli conducted as a part of Silver Jubilee Celebrations, helped to groom students.

(5) **Medical Assistance to Students:**

- The Institution organizes activities and programmes to promote good health among students and also to create awareness about health related issues.
- A Primary Health Centre in Betki, which is about 3-4 kms. away from the College campus, caters to the medical emergencies arising on campus.
- Doctor on call is available whenever emergency arises.
- College car is provided if any student needs medical help or a drop home safely.
- First Aid kits are available in the laboratories and Sports Department.

(6) **Organizing Coaching Classes for Competitive Examinations:**

- ❖ Department of Chemistry conducts classes for the T.Y.B.Sc students and prepare them to write the entrance exam of Goa University for M.Sc.

- ❖ Economics and Computer Science Departments extend help to prepare for entrance examinations for PG courses.
- ❖ Overall every Departments guide the concerned students appearing for competitive examinations.
- ❖ Library is equipped with books necessary for entrance examination of different subjects.

(7) Skill Development:

- College offers Information Technology and Cyber Security Course which is compulsory for all under-graduate students (B.A., B.Sc., B.Com.) in Semester I and II.
- Department of English offers Spoken English as a Compulsory Course for the students of B.A., B.Sc. and B.Com.
- Students are trained to present papers using the LCD. Facilities like LCD in classrooms, Internet through wi-fi are made available for students.
- Online course "Spoken Tutorials in IT" is initiated by Computer Science Department of the College.

(8) Support for 'Slow Learners':

- Tutorials / Remedial classes are conducted for the students of B.A., B.Sc. and B.Com. programs.
- Mentoring and Personal Counselling helps to monitor the progress of slow learners.

(9) Exposures of Students to other Institutions of Higher Learning/Corporate/Business House:

- Students participate and present papers for seminars and workshops conducted by other Institutions of higher learning.
- Field trips are conducted to industries, corporate business houses and Institutions to give the students first-hand experience of quality control and corporate life respectively.
- Study tour to National institutes like Bhabha Atomic Research Centre, Mumbai, NIO, NCAOR, are organised to inculcate research culture and scientific temper in students.

(10) Publication of Student Magazines:

- The students contribute articles for the annual College magazine titled 'MAHASHALA'.

5.1.5 Describe the efforts made by the Institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- The Department of Commerce conducts talks on various topics for enhancing entrepreneurial skills.
- Entrepreneurship Mela-an Exhibition cum Sale was organized by the Commerce Department to develop entrepreneurial skills among students through manufacture and sale of food stuff, cards, paintings, bags, flowers, mehendi and nail art etc.
- The Department of Economics conducted a workshop for students in Mushroom Cultivation which helped them to grow mushrooms for personal consumption.

5.1.6 Enumerate the policies and strategies of the Institution which promote participation of students in extracurricular and co-curricular activities such as Sports, games, Quiz competitions, debate and discussions, cultural activities etc.

(1) Additional academic support and flexibility in examination:

- Absentee students during their participation in extra-curricular activities and Sports are rendered additional academic support by conducting extra classes and repeat practicals.
- Additional ISAs are conducted to ensure the presence in all the internal exams.
- The Ordinance of Goa University provides grace/condonation marks for students who participate in extra-curricular activities such as N.S.S. and Sports.
- The Ordinance of Goa University also provides flexibility in attendance of the students i.e. attendance for the day of participation is condoned.
- As per Goa University policy, the students who participate in any intercollegiate Sports/cultural events get grace marks in each semester.
- Furthermore sixteen grace marks are awarded to students winning intercollegiate Sports.
- Players who represent Goa University at All India inter University championship are entitled to the award of twenty merit marks per semester.

(2) Special dietary requirements, Sports uniform and materials:

- Students participating in Sports activities are given a practice allowance and T.A./ D.A. to be used for their travel and balanced diet requirements.
- They are provided with Sportswear and a Sports kit.

(3) **Any Other:**

- The Institution reimburses expenditure incurred by the students to participate in extra-curricular and co-curricular activities.
- The Cultural Co-ordinator and other faculty members monitor and guide the students participating in such activities.
- Inter-College, Intra-College events and programs are organized by the Institution. Student-oriented events such as NSS Camps, study tours are annually conducted by the College.
- The College has instituted awards and cash prizes to recognize the achievements of outstanding students in Sports and other co-curricular activities.
- Monetary prizes awarded to the students are equally shared by the participants.
- The College declares 'Best Sportsman / Sports Woman of the year' on the basis of their achievements in the Sports activities and crowns two students 'Mr. Khandola' and 'Ms. Khandola' during Jubilations for their all round performance.
- 'Best Student Award' and 'Teachers Appreciation Award' is given to the student who is nominated on the basis of a consistently good academic record, co-curricular, extra-curricular achievements and exceptional behaviour.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive examinations, give details on the number of students appeared and qualified in various competitive examinations such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

- The College encourages and guides students who appear for various National and State Competitive Examinations such as entrance examinations for Post Graduate courses like M.C.A., M.Sc. and M.A.
- Special coaching classes are conducted for writing the entrance examinations for post-graduate courses in Chemistry, Economics and Computer Science.
- The Library subscribes to a wide range of books like GMAT, GATE, TOEFL, CAT, MAT, SET, NET and magazines like Competition success, Manorama which serve as a ready reference for competitive examinations.
- The Ex students of the College avail the guidance of the faculty and Library facility in view of preparation for competitive exams.

5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)?

- The Institution has a Professional Counselor available on campus to provide counselling on personal level to the students.
- An additional woman counselor has also been appointed in view of a large number of female students and is available once a week.
- At the beginning of the academic year, the First Year students attend an Orientation by the Principal and faculty introduces a fresher to the academic and co-curricular activities of the College.
- A mentoring scheme has been introduced and students are guided for their academic, personal as well as career related issues.

5.1.9 Does the Institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programs).

Yes.

- The Institution has a Placement Cell, which organizes programs to guide students in terms of appropriate career choices and gainful employment.
- The College invites Companies for campus recruitment.
- Career related talks are organized by respective Departments.
- Campus interviews are organized in the College in Chemistry and Commerce subjects.
- Students are encouraged to participate in career information fairs.

Company	Students interviewed	% of students shortlisted
Vergo	9	4
Vedanta (Sesa Goa)	20	1
Syngenta	12	2
ICICI	30	22
HDFC	15	5

5.1.10 Does the Institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes.

The Institution has a Grievance Committee which is a statutory committee that deals with examination related grievances of the students.

Present committee members are:

Dr. P. K. Rath - Chairman
Ms. Anita Raicar - Member

The College has a public and general Grievance Redressal Committee that attends to the general grievances of the students, staff, and public related to the College.

Present committee members are:

Dr. Jaison Joseph - Chairman
Dr. P. K. Rath - Member
Ms. Yanita Palkar - Member

Suggestion boxes are installed at various places like Library, Office, Canteen, New building. The boxes are opened periodically and grievances are redressed accordingly.

Some of the actions taken on the basis of grievances are:

- ❖ Services of the previous canteen contractor were terminated and a new one was appointed.
- ❖ Bus service was started from College to the bus stop in the morning and afternoon.

5.1.11 What are the Institutional provisions for resolving issues pertaining to sexual harassment?

- As per the University statutes, statutory committee on Prevention of Sexual Harassment is constituted for three consecutive years.

Present committee members are:

Dr. Christina D'Souza - Chairperson
Dr. Pravina Kerkar - Member
Dr. T.S.Dey - Member
Adv. Divya Malkarnekar - Member
Ms. Pushpa Tari - U.D.C
Ms. Johanna Gonsalves - Student Member
Ms. Prachi Khandeparkar - External Member

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

- An Anti-Ragging Committee has been established and awareness of this body is conveyed to the students at the time of admission and the orientation programme.
- Information is also available in the College prospectus, as well as on the College website.
- As per the UGC guidelines, undertaking on anti-ragging is obtained from the students and their parents at the time of admissions.
- An anti-ragging report is sent monthly to the Governor.

Present committee members are:

Dr. Lucas Miranda	-	Chairman
Ms. Gracy Fernandes	-	Member
Ms. Radhamani Divakar	-	Member

- No instances of ragging have been reported till date in the College.

5.1.13 Enumerate the welfare schemes made available to students by the Institution.

- The Institution is committed to the overall welfare and wellbeing of its students. The various welfare Schemes are listed below:
 - Various central government and state government scholarships.
 - Professional Counselor on campus
 - Scholarships and prizes awarded by teachers, alumni, industry and well-wishers.
 - A Book Bank scheme for needy students
 - Students Aid Fund
 - Students are allowed flexibility in payment of fees as per their convenience

5.1.14 Does the Institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for Institutional, academic and infrastructure development?

The process of registering the Alumni Association is on. The College has an Alumni Association with about 200 members. The alumni meet at least once a year. Alumni who have distinguished themselves in their chosen fields are invited to deliver guest lectures and have interactive sessions with the students.

Following activities were organized under alumni association:

- A one day job fair on 15/03/14 wherein ICICI Bank, HDFC Bank, Open destination, Infotech and United Capsules participated. The beneficiaries were sixteen students.
- General body meeting on 23/03/14.
- College awareness programme: Visited sixteen higher secondary schools and nearly one thousand pamphlets were distributed among the HSSCE students in the month of April.
- Alumni Day: Celebrated on 11/01/15 in view of silver jubilee of the College to re-unite the ex-students and register for the association.
- Swacchata Abhiyaan: on 25/01/15 cleanliness Drive Association donated dustbins to be placed in public areas of Khandola and Marcel. The College road was made plastic and paper-free.
- Alumni have instituted prizes for meritorious and deserving students in Arts, Science, Commerce and Microbiology.
- Vruksharopan: Tree plantation campaign in Khandola betki area on 26/07/15 followed by poster competition on “save environment”. Medicinal, flowering and fruit saplings were distributed among the locality and planted around.
- Capacity building and Personality development programmes on 15/05/16.
- Activities in pipeline: Blood Donation Camp, Medical and Eye Test Camp, training sessions for fresh graduates to introduce them to industry sector, social awareness programmes to prevent increasing suicides, drugs/alcohol abuse.

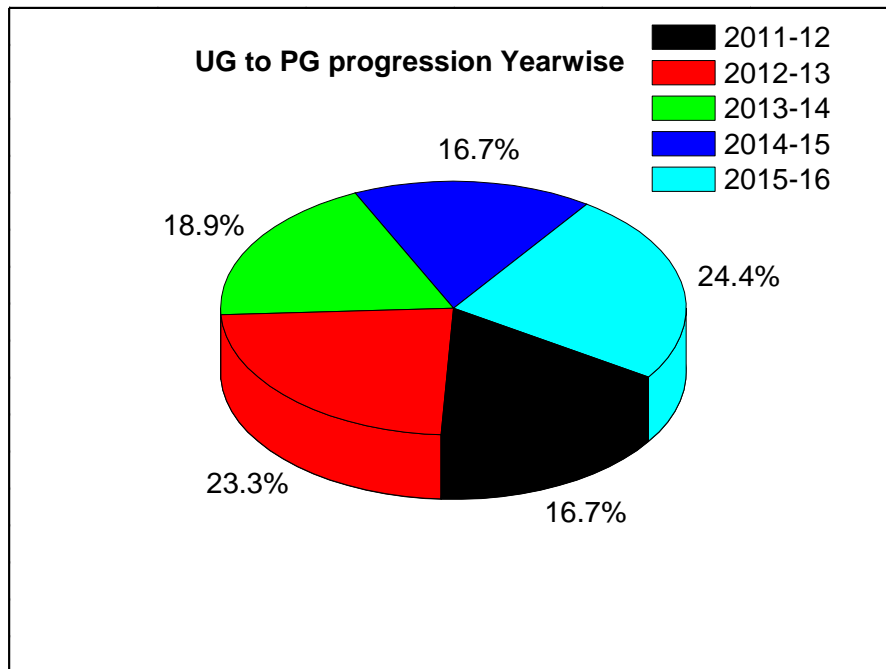
❖ Alumni profile attached in annexure

5.2 STUDENT PROGRESSION

5.2.1 Provide the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

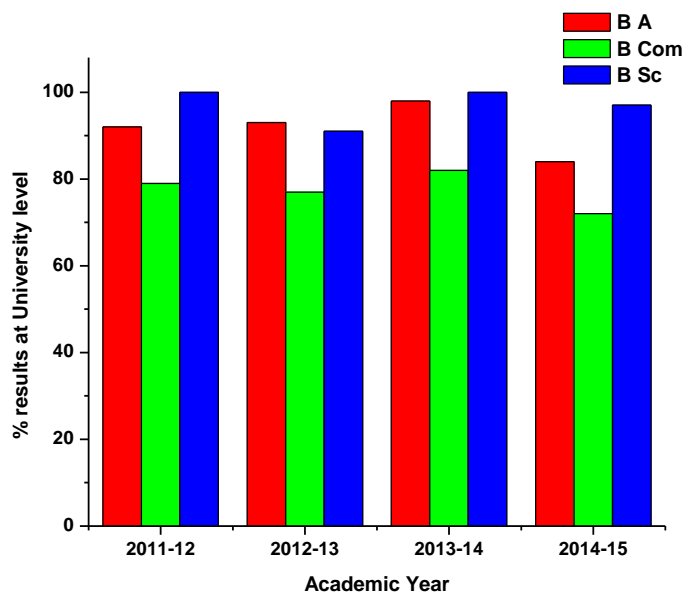
Percentage of Students Progressing to Higher Education:

Year	UG-PG
2011-12	15%
2012-13	21%
2013-14	17%
2014-15	15%
2015-16	22%



5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the University)? Furnish programme-wise details in comparison with that of the previous performance of the same Institution and that of the Colleges of the affiliating University within the city/district.

Month and Year	Class	Percentage of College	Overall percentage at University level
April/May, 2012	B.A.	92%	
	B.Com.	79%	
	B.Sc.	100%	
April/May, 2013	B.A.	93%	
	B.Com.	77%	
	B.Sc.	91%	
April/May, 2014	B.A	98%	
	B.Com.	82%	
	B.Sc.	100%	
April/May, 2015	B.A	84%	
	B.Com.	72%	
	B.Sc.	97%	
April/May, 2016	B.A	95%	
	B.Com.	82%	
	B.Sc.	98%	



5.2.3 How does the Institution facilitate student progression to higher level of education and/or towards employment?

The progression of students to higher level of education is monitored under the patronage of Career Guidance and Placement Cell and at the capacity of Department.

Department Level:

- Guidance is offered to the students in selecting P.G. courses and placement.
- Coaching for post graduate courses is provided to the exit students.
- Short term Certificate courses are organized to increase their employability.
- Guest lectures are held on various job avenues in a particular subject.
- Concerned Departments organise the Entrepreneurship Camp or Mela.

Career guidance and placement cell:

- The Placement Cell and Career Guidance Cell of the College organise personality development classes, campus recruitment interviews.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- Remedial or extra classes are conducted to make the students understand the basics of the subject.

- Teachers counsel/mentor such students throughout the academic year and boost their morale.
- They also provide assistance in solving difficulties during the preparatory holidays of Examinations.
- Teachers are always available to provide academic assistance to the needy students.

5.3 STUDENT PARTICIPATION & ACTIVITIES

5.3.1 List the range of Sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The range of Sports, games, cultural and other extracurricular activities available to students are:

(a) Sports and Games

Intra-Mural level:

Football	(M)	Athletics	(M/W)
Volleyball	(M)	Cricket	(M)
Hockey	(M)	Kabaddi	(M)

Inter-Collegiate level:

Football	(M/W)	Volleyball	(M/W)
Baseball	(M/W)	Hockey	(M/W)
Kabaddi	(M/W)	Tennikoit	(M/W)
Chess	(M/W)	Table Tennis	(M/W)
Badminton	(M/W)	Cricket	(M/W)
Judo	(M/W)	Taekwondo	(M/W)
Weight lifting	(M)	Power lifting	(M)
Best Physique	(M)	Athletics	(M/W)

*M = MEN, W = WOMEN

Inter-University level and Nationals:

- Students are selected to participate at the Inter-University and National level based on their performance at the University level.
- The College takes part in Inter-Collegiate Tournaments organised by the University.
- The College organises its Annual Sports Meet during the month of November and it has been organised successively for the past 25 years.

(b) Cultural and Extra-curricular Activities:

Intra-Mural level:

Students' Council: Jubilations, Singing competition, Dance competition with theme, Folk dance, Western dance, Mime competition, Advertisements, Fashion show, Face painting, Tattoo competition, T-Shirt painting, Mehendi, Rangoli, Hairstyle, Vegetable carving, Cooking, Bag making, Teacher's day, National Days, Liberation Day, Annual Social Gathering, Farewell for outgoing students.

Clubs/Associations/Departments:

Quiz, debates, elocution, street plays, role play, poster-making, cooking without fire, flower arrangement, Ex-tempore, rallies, demonstration reactions in Chemistry, photography and garland making in physics.

Inter-Collegiate level:

The College organizes and participates in inter-collegiate events with the twin purpose of exposing our students to a competitive spirit and to build in them enduring qualities that will help them cope with challenges after their College years.

- One Act Play Competition in Konkani organised by Kala Academy, Goa.
- 'Yuva Mahotsav' organised by 'Konkani Bhasha Mandal' in the following activities:
 1. Rangoli Competition
 2. Solo Singing Competition
 3. Folk Dance Competition
 4. Monologue Competition
- Elocution, Quiz, poetry, Street Play

Calendar of Cultural Programs:

Month	Event
15 th June	Inauguration of the Academic year
15 th July	Installation of the Students Council
15 th August	Independence Day
5 th September	Teachers Day
14 th September	Hindi Divas
27 th November	Annual Sports Day
15 th to 20 th December	College Festival "Jubilations"
21 st December	Annual Day and Prize Distribution
19 th December	Goa Liberation Day
26 th January	Republic Day
15 th March	Farewell to T.Y. students

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University/State/Zonal/National /International, etc. for the previous four years.

Inter-Collegiate Competitions: (University Level)

Year	Event	Men	Women
2011-12	Judo		Runners Up
2013-14	Baseball	Winners	Runners Up
2014-15	Baseball		Runners Up
2015-16	Baseball	Winners	
	Taekwondo		Runners Up
	Judo		Runners Up

Major Achievements at the State / National Level: 2011-12

- Ms. Sonam Dalvi participated in the National Softball Competition at Hyderabad.
- Ms. Shweta Kuvelkar participated in the Inter University Baseball Tournamant at Cuttack, Odisha.

2012-13

- Ms. Drohini Gaude declared Best Judoka in Goa University.
- Ms. Drohini Gaude and Lavina Kurtikar participated in National Floorball Championship.
- Mr. Vikar Chawdhari participated in the National Athletic Championship in Pune.

2013-14

- Mr. Avneesh Gaonkar participated in the Junior National Tennis Ball Cricket Championship.
- Mr. Sushant Kerkar and Ms. Diksha Palni participated in the Senior National Tennis Ball Cricket Championship held in Ranchi, Jharkhand.
- Ms. Drohini Gaude represented Goa University at the All India Inter- University Judo Tournament.
- Ms. Sonam Dalvi, Ms. Prachi Gosavi and Ms. Nassin Khan participated in the Federation Cup Soft Ball Championship held in Amritsar, Punjab.

- Ms. Anupa Gaude participated in the Soft Ball National Championship.
- Mr. Sunny Gaude participated in the Senior National Baseball Championship held in Solapur, Maharashtra.
- Mr. Sairaj Dhulapkar and Mr. Saish Kavlekar participated in West Zone Inter- University Football Championship.
- Mr. Anish Gaonkar, Mr. Giridhar Gaude and Navesha Naik participated in West Zone Tennis Ball Cricket Championship held in Panaji, Goa.

2014-15

- Mr. Pundalik Bhomaikar participated in Junior National Judo Championship at Vadodara.
- Mr. Sushant Kerkar and Diksha Palni participated in Sr. National Tennis Ball Cricket Tournament in Himachal Pradesh.
- Ms. Anupa Gaude participated in South Zone Softball National Championship.

2015-16

- Mr. Latif Khan won Gold in Third National Tang Soo-do Championship held from 7th to 9th August, 2015.
- Ms. Vaishnavi Bhagat won Silver in State Taekwondo Competition.
- Ms. Camelon Fernandes won Bronze in State Taekwondo Competition.

(2016-17)

- Ms. Camelon Fernandes won the Gold in the National Taekwondo Championship.

NSS Activities:

- College Won Second prize in inter-collegiate Folk Dance Competition.
- The NSS unit organized intercollegiate elocution competition on Environmental hazards in association with Marcel Kala Premi Sangh.

Curricular Activities:

Chemistry

1. Ms. Utkarsha Mardolkar was awarded Third prize for poster presentation titled '**photocalalytic Degradation of AZO dyes photo-Fenton Reagent in aqueous medium** ' at the 6th Annual Inter-collegiate Symposium for T.Y.B.SC (Chemistry) students "Fascinating World of Chemical Sciences" organized by Department of Chemistry on March 17, 2012 at Goa University guided and authored by Dr Jivexa Bhattacharjee
2. T.Y. B.Sc student Ms Stacy Rocha won the Second Place for oral presentation on "**Nanomaterials derived from Ferrites**" at the 7th Annual inter collegiate symposium organised by Department of Chemistry held on 9th March, 2013 guided and authored by Dr. Beena Vernekar.
3. Ms. Pratika Raikar was awarded Second Place for Best Poster Presentation on the topic "**Hazardous Holi Colours**" at 8th Annual Inter collegiate T.Y. B Sc. Chemistry Symposium on organised by Department of Chemistry on March 15, 2014 guided and authored by Dr Rajashri Mordekar.
4. T.Y. B.Sc. students Ms. Krutika Naik and Ms. Pooja Bandari Secured first place in the Intercollegiate B.Sc. Chemistry quiz conducted by ACT on 27th January 2016 at Carmel College, Nuvem.
5. F.Y. B.Sc student, Mr. Schubert Fernandes won First Place for Oral presentation at one day intercollegiate Chemistry event KYNESIS organised for BSc students on 20th February 2016 by Parvatibai Chowgule College of Arts and Science.
6. F.Y.B. Sc. student Mr. Dixit phadte and Mr. Charant Naik won first place for poster making ("Chemistry - yesterday, today, tomorrow") at the one-day intercollegiate Chemistry event KYNESIS organised for BSc students on 20th February 2016 by Parvatibai Chowgule College of Arts and Science.
7. F.Y.B.Sc. student Ms. Stacy Remedios and Mr. Schubert Fernandes won first place for Action Reaction-at the one-day intercollegiate Chemistry event KYNESIS organised for BSc students on 20thFebruary 2016 by Parvatibai Chowgule College of Arts and Science.

8. B. Sc. students Sanam Vaingankar and Madhuri Naik won first place in the poster competition organised on the theme "Green Chemistry" for B.Sc. students at the Annual Convention of Chemistry Teachers was held on 24th February 2016 at Government. College of Arts Science and Commerce, Sanquelim, Goa.

Marathi

- a. Best student award from College :
 1. Vaishali Parab 2011- 2012
 2. Pradnya Tari 2014- 2015
 3. Sanjay Salelkar 2015- 2016
- b. Students secured various prizes in Poetry Writing, Abhang-gayan.

Hindi

- Jyoti Sawal won 2nd place in All-Goa Hindi story writing competition organised by CES College of Arts & Commerce, Cuncolim-Goa 2010-2011.
- Jyoti Sawal won 1st place in All-Goa Hindi story writing competition organised by CES College of Arts & Commerce, Cuncolim-Goa 2011-2012.
- Ms. Asha Naik student of Hindi Department was declared Student of the year of Government College, Khandola in the year 2012-2013.
- Ms. Vishranti Halgekar, an ex-student of Hindi Department was a Gold medalist at University in Department of Hindi in the year 2014.

Political science

- i. Miss Anjali Naik, student of Political Science, was awarded 2nd Prize at District Level Essay Competition organized to commemorate 3rd National Voters Day organized by the Office of Chief Electoral Officer, Panaji Goa on 25th January 2013.
- ii. Miss Vishranti Halgekar and Mr. Pravin Sawant, secured second place in Intercollegiate Quiz competition on the Topic 'Goa Post Liberation Era" organized by Department of Political Science, CES College, Cuncolim, Goa on 24/01/2012.

- iii. The Department trained the students of the College to participate in the street play competition organized by Office of Chief Electoral Officer in association with Government College Quepem to commemorate National Voters Day in January 2014, and our students secured third place for the same.

Co-curricular Activities 2012-13

1. Four students of our College were selected by "LOKMAT" for a three day Film Appreciation Course and were members of Young Jury Awards at IFFI 2012.
2. Third place for the Folk Dance Competition organized by Youth Hostels Association of India, Margao Unit at Ravindra Bhavan, Margao.
3. Third place in All-Goa Inter-collegiate Ghumat Arati Competition organized by GVM's College.
4. First Place in Mando singing competition at St. Theresa's High School, St. Estevam.
5. First Place in Hindi Elocution Competition organized by Chowgule College, Margao.
6. Second Place in Advertisement Marketing organized by Carmel College, Nuvem.

Students Council: 2011-2012:

- Students participated in Inter Collegiate events- Elocution Competitions, Folk Dance Competition, Disha - 2011, Ghumat Arti Competition, Essay Writing Competition.
- Students were Runners up in Inter-Collegiate 'Twilight' festival organised by Goa College of Home Science, Panaji.
- Mr. Joebert Dias won the 2nd place in Essay Writing Competition organised by Ramani Medical Foundation.
- Ms. Chriselle Fernandes won the 3rd prize in Elocution Competition on 'World Tourism Day' organised by GVM's Higher Secondary, Ponda.

2012-13

- Students Council conducted 'All Goa Ghumat Aarti Competition', and 'All Goa Carol Singing Competition'.
- Abhyas Mandal organized Inter-collegiate Abhang Gayan and Kavyajagor competition in association with Directorate of Art and Culture, Government of Goa in 2012-13.

2013-2014:

- College won the First prize in the Bible Quiz organized by St. Xavier's College, Mapusa on 11th February 2014.
- Students actively participated in "Goa Yuva Mahotsav 2014" and won the 2nd place in the Folk Dance Competition.
- College won the Third place in the Inter-Collegiate Street Play competition organized by Chief Election Office, Goa in association with St. Xavier's College on Voters Day, 25th Jan 2014.
- The College won 5th place in "Creations" organized by Dhempe College, Miramar. Ms Eureka Lobo won the Runners-up title to Ms. Creations; GS Joven Fernandes and Rhea Saldanha won 2nd place in Treasure Hunt; Krizelle Dias & Vishal Mane won 2nd place for "Trash to Treasure", Sukendo Reddy won 2nd place in "Minute to win " while Vishwanath Gadgil and Chinmay Hazare won 3rd place for "Pre-historic Mascot".

2015-2016 :

- The College won third place in All Goa Patriotic Singing competition held at Ponda by Bandoda Youth Club.
- The College secured the 2nd place in "Parampara Utsav" organised by Mentors Youth Club, Cumbharjua.
- Ruchi Verenkar secured the 2nd place in Solo singing competition at Damodar College Margao; 2nd place at P.E.S College Ponda and 2nd place at Goa University, Taleigao Plateau.
- The College secured the 3rd place in Jugalbandi competition and 2nd place in Elocution competition in "Urba" a youth festival organised by Shanta Durga Vijayete Kala Mandal at Cuncolim.
- The College secured the 3rd place in "Lokmanda" at "Goa Yuva Mahotsav 2015".
- The College won the 3rd place in "Tokhnayo" an event organised by Independent Cricket Club, Veling.

5.3.3 How does the College seek and use data and feedback from its graduates and employers, to improve the performance and quality of the Institutional provisions?

Feedback from Graduates:

- Feedback is sought from the graduating students through Exit Questionnaire.
- During farewell function, graduates express their gratitude or challenges they have faced during their College days.
- Graduates express the satisfaction of job skills and soft skills which they have acquired during their graduating years and which holds them in good stead at their work place.

- Parental feedback is given due consideration through interaction with the PTA forum.
- The College gets feedback from employers who are invited to the College as speakers for seminars and workshops.
- The faculty also obtains feedback when they undertake industrial visits along with the students. This helps the Institution to enhance the quality of education.
- Alumni Association bridges the gap between the ex-students and teachers and provide means of improving the performance in the quality of the Institutional provisions.

5.3.4 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Publication:

Students are encouraged to contribute articles to various College publications which gives them an opportunity to enhance their creative and writing skills.

1. **Mahashala:** It is the annual College Magazine that provides an opportunity for students and staff, to contribute articles and stay connected.
2. **Khoj:** It is an Inter-disciplinary Research Journal published annually which includes research articles.
3. **Wall papers:** These are displayed on College Notice Boards covering articles written by student on current and relevant issues.
4. **Campus glitters:** The students contributed to in-house news bulletin "Campus Glitters" in the year 2013-14.
5. **Spektrum Club Gallery:** Chemistry students display their creative writing on current issues in science in the Spektrum Gallery.
6. **News papers:** Students are encouraged to write articles in local dailies.

5.3.5 Does the College have a Student Council or any similar body? Give details on its selection, constitution, activities and Funding.

Students Council:

Selection:

The College Students Council is governed by the University statutes. The elections held are based on secret ballot system in accordance with

the majority votes. Every student on the roll of the College has the right to vote in the election. The Students Council has no political affiliation. A candidate contesting the election must be a regular student of the College.

Constitution:

The functioning and activities of the Students Council are under the guidance of the Principal and Cultural Co-ordinator. The Student Council comprises of the:

- 1) General Secretary
- 2) Cultural Secretary
- 3) Class Representatives
- 4) Ladies Representative
- 5) Sports Secretary.

In addition, University Class Representatives are elected who function as the representatives of the students of this College at the affiliating University.

Activities of the Student Council

- The Student's Council takes the lead in extra-curricular activities in the College.
- It organizes a three day Annual Festival-Jubiliations, which is an inter-class competition.
- Patriotic Singing Competition, Teacher's Day, College Farewell for the graduating students are organized by the student's council.
- These activities promote a student's talent, creativity and skills at shouldering responsibilities, planning, organizing, maintaining discipline, spirit of co-operation and competition, financial management.

Funding

The Institution promotes the activities of the Student's Council. The Council raises additional Funds, if required through sponsors like Department of Art and Culture, Government of Goa, Goa Tiatr Academy, Sesa Goa, Syngenta, State Bank of India.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Academic and Administrative Bodies:

The academic and administrative bodies that have student representatives on them are as follows:

- (1) The Students Council
- (2) IQAC

- (3) Prevention of Sexual Harassment Committee
- (4) N. S.S.
- (5) Sports
- (6) Spektrum Club of Chemistry Department

5.3.7 How does the Institution network and collaborate with the Alumni and former faculty of the Institution.

Collaborate With the Alumni:

- ❖ The College has a full-fledged alumni association. The ties with the former students are made close-knit by alumni association by motivating them to register themselves to the association.
- ❖ Ex-students are motivated to make a leap of progress in the big world outside.
- ❖ Re-unions are held to strengthen the rapport between the staff, students and the alumni.
- ❖ A few of our staff are drawn from our own alumni.
- ❖ The vibrant Alumni brings the College to the forefront in various fields and materializes the concept of holistic development of the individuals.
- ❖ The placement record shows well placed alumni in all walks of life.

Collaborate With former faculty:

- ❖ Former faculty, Principals are invited during get together events like farewell party for staff or felicitation function, annual day and events celebrating the milestones of the College.
- ❖ Staff Welfare Club keeps in touch with the former faculty by urging them to contribute research findings in research journals or creative writings for College magazine.
- ❖ Former faculty are requested to participate and contribute in the seminars and workshops organized by our College.
- ❖ Social networking like twitter, facebook, instagram, E- mail, whatsapp provide instant communication and connect with the former staff.

CRITERION VI

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

The Vision of our College is “**Centre for Excellence**”. The College has following objectives:

- Quality Education, Training and Research
- Culture, Values and Morals

To pursue these objectives the College has the following goals:

- To promote high standards of education in an environment conducive to the needs of undergraduate students.
- To provide undergraduate education that will enable students to be responsive to the needs of an ever-changing society.
- To promote the advancement of scholarly and artistic activities for students and faculty.
- To foster a culture that supports and reinforces ethical and pro-social Values.
- To create an environment in which students and faculty find support and encouragement in achieving life goals.

The mission of our College is “**To dedicate our energy to be responsive to the needs of an ever changing society by promoting excellence in academics and art**”

The curriculum and the delivery aspects reflect the College mission goals and objectives. The College imparts general education in faculty of Arts Science and Commerce by giving equal importance to knowledge and skill orientation. The study program is flexible and offers horizontal mobility too. New courses are periodically introduced.

Our College will be the first Government College to start M.Sc in Chemistry from the year 2017 onwards unlike the other self-financed courses in the government aided Colleges. This College is among the 30% Colleges in Goa which offer B.Sc. in Microbiology and Psychology.

The faculty is actively involved in curriculum development, restructuring syllabus and also as members of Board of Studies.

Our College is a multi faculty College with multidisciplinary approach. The performance of students is reflected as very good results attained in university examination. The College has linkages with NIO, Dona Paula, Syngenta, Vergo Pharma etc. Commencement of M.Com in the academic year 2017-18 and set up of Research Centre in Konkani and Political Science will add to the vistas of the College.

Section 12(B) recognition by the UGC, New Delhi, enabled this College to take the advantage of the UGC sponsored seminars as well as research projects.

The primary objective of the College is to become Centre of excellence to ensure each student will be gainfully employed having the Values of independent thinking, team work, equal opportunities to make learning a lifelong activity. It is envisaged that our College will emerge as the premier educational institution in the state of Goa.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

Management of this College is by the State Government of Goa. Since the College does not have any autonomous status, the design of the courses and curriculum is as per the Goa University norms. However the College has Internal Quality Assurance Cell (IQAC). It has framed quality policy in consultation with the stakeholders of the College. It designs and formulates action plan. IQAC ensures the smooth functioning of the institution directed towards desired quality goals.

College has Advisory Committee which comprises, Director, Directorate of Higher Education, represents state government, two representatives from the Goa University, members from each faculty and the representatives from the Society.

The annual calendar/prospectus of the College has all the curricular and co-curricular activities planned for the year, keeping in mind the goals and objectivities of the College. The same is forwarded to the Annual Activity Planning Committee. A tentative plan of activities is prepared and is executed.

The work culture of the institution is improved by rigorous process by conducting staff meetings consultations, discussions, evaluation, various assessment procedures like assessment of students by teachers.

Teachers attend workshops, seminars, orientation refresher courses and evaluation programme both in the capacity of participant and resource person, publish papers in the journal, keeping themselves abreast of the latest development in respective subjects. Faculty members also organise seminars, workshops, programs with the objective of implementing the goals as set out in the mission and vision statements.

6.1.3 What is the involvement of the leadership in ensuring?

The Principal is the head of the institution and responsible for smooth functioning of the College. The role of principal is multidimensional. The Principal is responsible for both academic and administrative functioning of College

- **The policy statements and action plans for fulfilment of the stated mission:** The Principal in consultation with the faculties prepares the list of various Committees taking into consideration the design of activities in the annual calendar, all the suggestions and proposals are considered in preparing action plan for the fulfilment of the mission. The Committees are then responsible for the implementation of various activities in the College. The Principal and Departmental Heads ensure the smooth functioning of the day to day activities of the College.
- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan:** Each Department prepares its own action plan for the academic year. The various committees, associations and cells also design their list of activities for the year and at the end of the year the Chairperson every Committees submits the list of all the activities undertaken.
- **Interaction with stakeholders**
The Principal ensures that regular meetings with the students' council, faculty, non-teaching staff and alumni are conducted, to monitor and execute the action plan. IQAC meetings are held to check over the quality of the institution. Advisory Committee meeting is held once in a year for passing different resolutions. Besides, at the time of admission, the prospectus is handed out to the students. The Principal and the staff personally meet and address the students and their parents/guardians to brief them about general working, discipline and examination pattern.
- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

Stakeholders are given total freedom to voice their suggestions and opinions for quality improvement of the institution, which are then incorporated in the action plan for implementation. The College has its own research policy which provides necessary stimulus to the staff to involve themselves in research activities.

- **Reinforcing the culture of excellence**

By keeping in mind the vision of the College “The Centre of Excellence” following gestures are practised by the College:

- Felicitation of student topper in respective subjects
- Felicitation of sports students for their achievement in sports activities on the annual College day.
- Felicitation of students for their achievements in cultural activities
- Prizes are constituted by different companies like **Syngenta, alumni association and faculty members in cash for securing highest marks** in respective subjects. The list of prizes awarded is incorporated in the College prospectus

- **Champion organizational change**

The Principal of the College rotates the Committees every year while keeping the primary organizational setup intact. The rotation of the Committee gives opportunity to the faculty to prove their leadership skills. As per the university norms the head of the Department is rotated after every three years giving break for the next senior faculty. The new Arts and Commerce faculty block is constructed with an Examination Centre and opened for the students from 2015-16 onwards, this has added a new dimension to the Infrastructure of the College. The **ICT** enabled classrooms have made the learning process student friendly and have brought about a radical and positive change in the delivery mechanism of the teaching-learning process. The envisaged automation of the library and implementation of **N-list** has opened various avenues for the students and the faculty of the College to widen their horizons of knowledge.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

A) Constitution of various Committees:

- The Institution has set up a College Advisory Committee to plan and execute the necessary inputs
- IQAC meets regularly to review and monitor the overall quality and functioning of the College.
- Necessary advice and inputs are invited and implemented from the College Advisory Committee which meets once in a year in the College.
- PTA also plays an important role in overall functioning of the College activities.
- The financial plans and transaction is controlled by Account standing Committee and audit is carried out by the Directorate of Accounts Goa.
- Various Committees statutory and non-statutory, are constituted to coordinate monitor and implement various programs and activities.
- The feedbacks received from the staff and students are analysed, required changes are accepted and reformed as per the needs and implement ability.

B) Maintaining of Daily Work Record

- Daily work record is maintained by every member of the teaching staff.
- For the non teaching staff, duty allocation orders are issued and the same are monitored by the Head Clerk and routinely by the Principal.
- Ordinarily, Class I Gazetted Officers attendance registers are not mandatory. However, the faculty have volunteered to note down their presence in the muster roll at arrival and departure.
- Further Biometric Finger Scan Machine is installed to maintain digital attendance of teaching and non teaching faculty, which is then countersigned by the College Principal at the end of the month.

C) Meetings

- Regular Departmental and staff meetings are held for the co-ordination and monitoring of the Departmental work and the other College activities.
- Meetings of various Committees like Attendance, Students' Council, Canteen, Purchase Committee, Infrastructure Committee, are held from time to time.
- College Advisory Committee meeting is held annually for the execution of plan and feedback.
- IQAC also meets regularly as and when required in order to have a check on the internal and external quality of the academic and administrative structure.

D) Lecture Schedule and Suitable Adjustments

- The time table Committee gives the schedule of lectures and Principal ensures that all lectures are taken on time and as far as possible students are productively engaged during the course of the day. Any adjustment of lectures is done at Departmental level.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The Departmental heads are free to design and formulate their course of activities and lecture schedule for the academic year and to implement the same. The various other dimensions of the College show the academic leadership at work.

- College has been granted NOC to commence M.Sc. in Chemistry.
- Department of Konkani has applied for research Centre for PhD in Konkani.
- Department of Commerce is underway to start M.Com
- The research promotion policy of College motivates the teacher to pursue research by deputing them on sabbatical leave, FIP, study leave within and outside the country.
- Goa University is instrumental in appointing the staff on their academic bodies like Board of Studies and examination.
- Staff are motivated and permitted to be resource persons for seminars/ courses organized by Goa University and other Institutions.
- Staff are encouraged to apply for Major/Minor research projects funded by UGC and other agencies
- Invitations are extended to eminent personalities from various fields to deliver interactive guest lectures.

6.1.6 How does the College groom leadership at various levels?

A) Grooming Student Leadership

- Students' Council elections are held in the College free and fair on the basis of democratic principles.
- University Faculty Representatives(UFRs) are elected in the College to represent the interest of the College in the university
- Student's Council consisting of General Secretary and Class Representative of each class takes the responsibility of organizing the various cultural, sports and extracurricular activities of the College thereby displaying their leadership

skills. Ladies Representative of the council shoulders all the responsibilities of the women empowerment issues.

- The Statutory Committees of the College also have student representation. For instance IQAC two students from Science and Commerce stream are the members of the Committee.
- Participation of the students in curricular and co-curricular activities inter and intra College enables them to gain confidence and develop their leadership potentialities.
- Students are given responsibility to handle the organisational Committees of various workshops and seminars held in the College.
- "Spektrum" Club of the Chemistry Department comprises of Secretary who is the student and other five members of the Club are representatives of the each class, who work in tandem for the fulfilment of the goals and objectives of the Club.
- The College organises "Jubilations" a four day cultural event comprising various interclass events showcasing their talents and organizational abilities. This event then culminates into the Annual day prize distribution.

B) Grooming Faculty Leadership

- Staff members head different statutory and non-statutory Committees of the College. Staff members are members of Board of Studies and Academic Council.
 - Rotation of Head of Departments enables faculty to hone their leadership skills.
 - Being a Government College, the faculty members both teaching and non-teaching are involved in programs of national significance such as the conduct of Parliamentary, Assembly and Panchayat elections in the capacity of Area Officers, Sector Magistrates, Presiding Officers, Master Trainers and Polling Staff.
 - Staff members discharge their duties as programme officers for various schemes like NSS, conducting camps, rallies, street plays of the students in the interest of communities for the awareness of issues like environmental pollution, gender equality, female foeticide etc.
 - Staff members of the College are appointed as representatives of university to be on the selection panel of Assistant Professors.
 - The vertical progression of some of our faculty is reflected in the fact that they are being deputed as Registrar, Principal or Director of Government institution.
1. Dr. Mohan Sangodkar was appointed as Registrar of Goa University from 29/11/2005 to 28/11/2010.

2. Dr. Seema Rath, Associate Professor of Economics has been officiating Principal of this College from 04/02/2006 to 25/06/2006, 17/07/2008 to 28/11/2010 and 11/12/2012 to 17/06/2014, 16/08/14 to 02/03/2015.
3. Dr. Lucas Miranda Associate Professor of Maths was appointed as the officiating Principal of this College from 26/06/2006 to 16/07/2008.
4. Dr. Prakash Vazrikar, Associate Professor of Konkani, is the officiating Director at Directorate of Official Languages, Goa from 10/05/2012 till date.
5. Dr. Mahesh Pai, Associate Professor of Psychology, is the officiating Principal of Goa Home Science College, Panaji from 10/06/2013 till date.
6. Dr. S. V. Sukthankar Associate Professor of Commerce was appointed as the officiating Principal of this College from 28/06/2014 to 14/08/2014.
7. Dr. Jivexa Bhattacharjee, Associate Professor of Chemistry is the officiating Principal of this College from 8th June 2015 till date.

6.1.7 How does the College delegate authority and provide operational autonomy to the Departments/ units of the institution and work towards decentralized governance system?

Principal functions as head and mentor of decentralized governance system.

In view of the fact that the College doesn't have full time Principal, the Charge of Principal is allocated to the senior most faculty of the College.

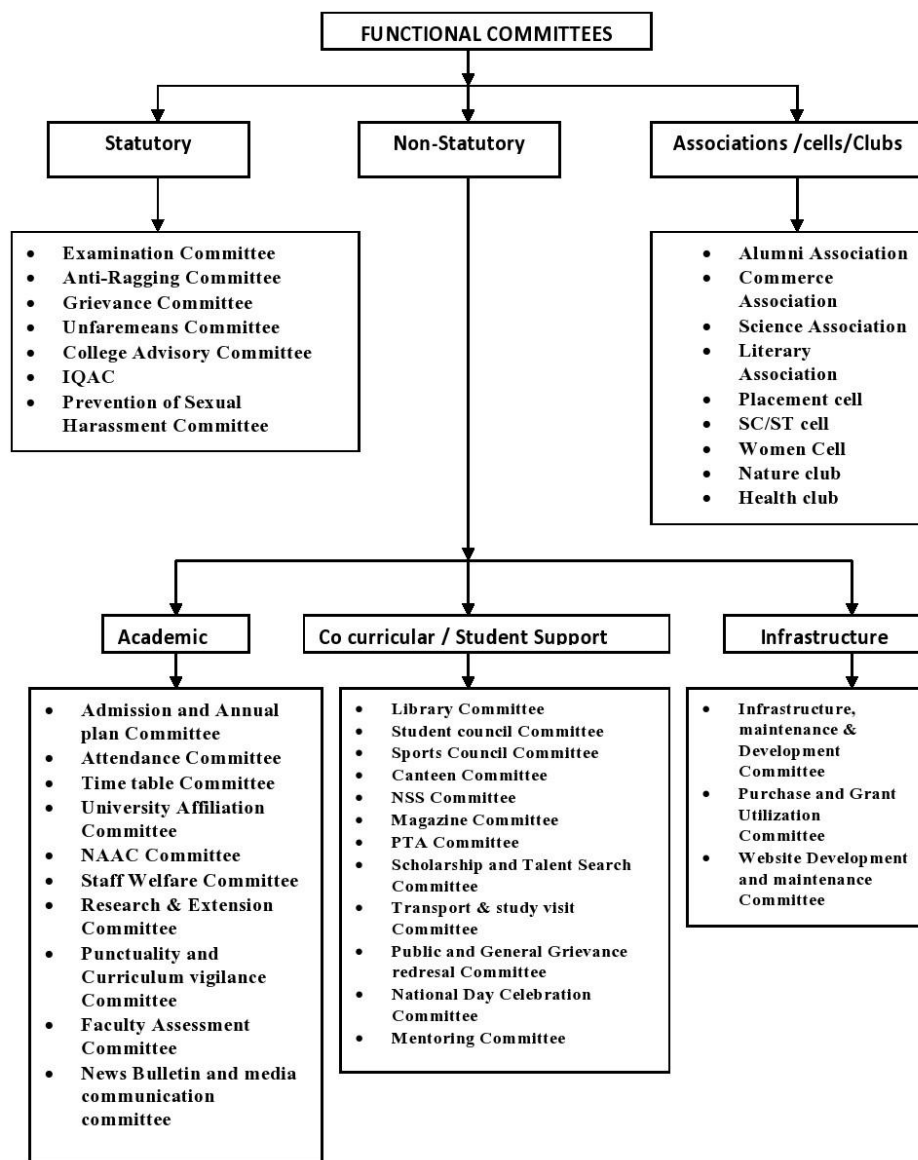
Dr. Seema Rath, Associate Professor of Economics efficiently discharged her duties as officiating Principal of this College.

Dr. Jivexa Bhattacharjee, Associate Professor of Chemistry is the officiating Principal of this College from June 2015 till date and monitors the day to day governance and functioning of the College.

Furthermore the Heads of the various Departments conduct monthly meetings with the staff both teaching and non-teaching attached to their respective departments in order to facilitate the orderly conduct of the Departmental curricular and co-curricular activities. Additionally, the HOD's in the Science stream also monitor the work of the laboratory staff assigned to their departments. Requirements for the laboratories are procured by the various departments through quotations and the bills are directed to the College office for clearance within the shortest time. The Departments thus function smoothly and efficiently in a decentralized manner without undue interference from the management.

6.1.8 Does the College promote a culture of participative management? If 'yes', indicate the levels of participative management.

The College believes in the principles of participative management. Suggestions made by stakeholders at staff meetings; meetings of the PTA, IQAC, Alumni, Students Council and the College Advisory Committee are incorporated and implemented in the action plans of the College. The academic and other activities of the College are planned and executed by the various Departments and Committees constituted for the purpose. Decision making is a collective exercise with inputs of all the stakeholders being taken into consideration wherever possible. In fact periodic staff and Departmental meetings ensure a culture of participative management. The non teaching staffs are also involved in various statutory and non- statutory Committees of this College.



6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The main stakeholders of our College are the students where the main objective of the College is not only dissemination of the information but impart the right Values and quality service to the society as responsible citizens of this country. Our IQAC is very vibrant where the Director of Higher Education is the representative of the management i.e. Government of Goa. The cell is reviewed periodically and all the goals and objectives of the Committee reflect the need of the society from the stakeholders like our students, Alumni, community etc.

The IQAC aims at:

- Encouraging and facilitating the use of ICT in teaching and administration.
- Motivating teachers to undertake research projects
- Skill formation through conduct of add on and short term certificate courses.
- Sensitizing students to social issues.
- Promoting research
- Making available facilities to prepare students for competitive examinations.
- Initiating improvements and corrective measures based on stakeholder feedback etc
- IQAC also involves in ensuring high standards in all the activities/programs organized by the College, including curricular, co-curricular and extra-curricular.

Yes. With the consideration of views of all the stakeholders, efforts are made to implement the policy at each level of functioning of the institutions. The policy is reviewed as per the feedback received from staff and students.

6.2.2 Does the College have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The College has a perspective plan both in terms of academic courses and Infrastructure.

Academics: The College proposes to:

- The College has been granted NOC to commence M.Sc. in Chemistry.
- The Department of Konkani has applied for research Centre for Ph.D in Konkani and Political Science.
- The Department of Commerce is underway to start M.Com
- Become a Centre for Potential for Excellence (CPE) by 2017-18
- Become a Model Degree College under RUSA by 2017-16
- Research Centre for Arts, Science and Commerce by 2017-2018
- Start Integrated M.Sc. Programme in Chemistry by 2018- 2019.

Infrastructure:

The College is already acquired a full- fledged Arts and Commerce faculty block along with a multipurpose hall and Canteen.

This block meets the requirements of green building as per GRIHA (Green Rating for Integrated Habitat and Assessment).

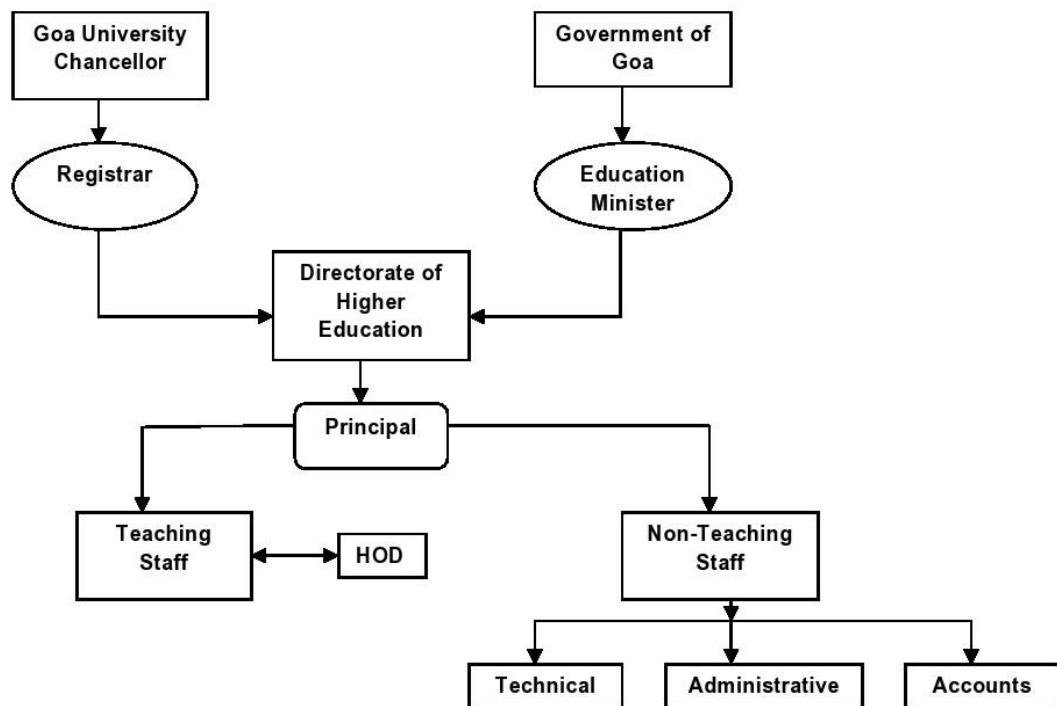
College will start consumer cooperative stores for the convenience of students. college proposes to have an independent play ground to boost the sporting spirit of our students.

set up of the post graduate laboratory in Chemistry is proposed to be sponsored by Syngenta India limited.

Proposal for RUSA is underway for further infrastructural development in the College.

6.2.3 Describe the internal organizational structure and decision making processes.

The organizational structure and the decentralized decision making process derived there from is depicted in the chart given below:



6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

The improvement of quality in the College is enhanced by having meets with the IQAC, College Advisory Committee and various other Committees and the following are the initiatives introduced for quality improvement.

A] Teaching and Learning:

Resource person of high calibre are invited to deliver lectures on recent advanced topics. Most of the class rooms in the College are ICT enabled. Various competitions are held with the theme where students can learn display their level of understanding. Students are motivated by awarding them with prizes. The students are engaged in group discussions, debates and brain storming sessions. The habit of reading newspapers/journals/books is also encouraged. Regular field trips, industrial visit, research institute visits and study tours are organized. Assignments/projects of contemporary relevance are also assigned to the students. Moreover the continuous assessment of the students makes the students aware of their responsibility; this also keeps the check on their learning process. College prides in having

rich library and access to N-list. The College plans to introduce automation of library.

B] Research and Development:

The College has a well defined Research Policy. Faculty are encouraged to register for and pursue doctoral studies and also apply for Major and Minor research projects. Staff members pursuing their doctoral studies are granted leave under faculty improvement programme (FIP) and state government leave after following the duly prescribed procedure. The Ph. D. aspirants are given Committees with lighter workload. The College also publishes an in house research journal "KHOJ" wherein the teaching faculty gets an opportunity write their research investigations. The College promotes the active participation and the presentation of research papers by the teaching faculty at State/National and International seminars/conferences/symposia. The faculty is motivated to publish their research work in journals and books of repute. Institution provides conducive environment of research and development as is evident from the fact that **seventeen faculty are PhDs and four are in the process of completion.**

C] Community Engagements:

Participation of the students in various programs helps to build the relationship with the society. Various programs organized by the NSS, and programs of other associations and Clubs of the College such as plastic free campaigns, blood donation camps, Environmental day, visits to orphanages and old age homes, street plays on social issues, Rallies on social issues etc have enabled the students of the College to build bonds with the community and contribute to the process of value addition. Red ribbon Club conducts various programs on AIDS awareness.

D] Human Resource Management:

Human Resource Management is the important factor among both staff and students. Value addition and management of these valuable resources is reflected in the programmes and activities that are organised in the College.

a) Human Resources- Staff

- The Staff welfare Club organizes Faculty Development Programs from time to time
- The non-teaching staff have been acquainted with the use of computers
- Teaching faculty are encouraged to attend and present papers at seminars/conferences/workshops, etc
- Leadership qualities are sought to be imbibed in the staff by motivating them to organize seminars/workshops and other such programs.
- As a quality enhancement strategy, non teaching staff of the College are deputed to attend and participate in human development programs organized by the GIRDA.

b) Human Resources – Students

- Students of the College are encouraged to participate in internal and external curricular and co-curricular programs organized within and outside the State.
- The literary skills of the students are honed by motivating them to contribute to the College wall paper, Gallery, Departmental notice boards, magazine, as also contributions in the local newspapers and through publications.
- It has been the strategy of the institution to expose the students to new technology by incorporating the same in the class rooms
- Professional Counsellors, as also the Class Counsellors address the emotional and psychological problems of the students
- Vertical mobility of the students in terms of employment is sought to be addressed through the Career Guidance and Placement Cell.

E] Industry Interaction:

Industry-Education interface is achieved through-

- Field trips/industrial visits by students.
- Placement interviews by renowned industries. Vergo Pharmaceuticals had conducted the placement interview on 30th April 2014 and around five students were placed as Quality Control Chemists in their industry.
- Inviting eminent resource persons from industry to address the students.
- Summer and winter Internships in industry. Sanofi-Aventis and Uni-chem have accepted our proposal for Internship in their industries.
- Industry oriented projects are given to students at T.Y. level wherein they have to visit the industry and study their system eg. Commerce and for Chemistry the students visit industries and make use of their sophisticated instruments and hence have the confidence and exposure.
- There is a very good interface between Syngenta India and our institution and the former annually sponsors the co-curricular activities for students. Syngenta has also instituted Prize for the for BSc students scoring highest marks in Chemistry at the Goa University final examinations.
- The proposal for Refurbishing of the Chemistry Laboratory has been submitted to Syngenta.
- Department of Chemistry, Government College of Arts, Science and Commerce Khandola Marcela-Goa, organized a one day workshop on “Safety in Laboratory” in collaboration with Syngenta, India on 30th April 2016. The workshop was organized with an aim of educating the Teachers, Laboratory staff and Students on the safety to be followed while working in laboratories.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Directorate of Higher Education regularly conducts meetings of Principals of Government Colleges, where issues related to the Colleges are discussed, deliberated upon, and reviewed. Important and urgent communication is conveyed through mails or telephonic conversations. Institution centric information and feedback is conveyed by the Head of the Institution to the various stakeholders at the meetings of the PTA, Staff, IQAC and the College Advisory Committee. The top management and the stakeholders are provided with the information wherever it is required.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The working structure of the College is basically decentralized wherein the heads of Departments and staff have the flexibility to plan and execute activities of their respective Departments and various associations. Various Committees are constituted comprising of teaching, non-teaching staff and students who actively participate in making the activity a success. Every year all the Departments and Committee in-charges submit their plan of activities and thereafter the report of the activity held is submitted to the office, as well as in the local daily for appropriate awareness among the community. At staff meetings, decisions taken are unanimous. The staff thus is an integral part of every aspect of College activity and facilitate the effectiveness and efficiency of the processes.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Being Government College, the College is managed by Government of Goa. However, there is a College Advisory Committee headed by the Director of Higher Education represented by various stake holders which meets annually and deliberates on concerns of the College including Infrastructure. The Director of Higher Education also conducts meeting with the staff. The resolution made at the last meeting were as follows:

To have a full fledged Chemistry laboratory for starting Post graduate course in Chemistry,
Apply for accreditation of the College,
apply for a research Centre in Konkani language.
to make the campus, **green and eco-clean**
seek UGC/RUSA funding

College has IQAC which oversees the quality of the education, Infrastructure and Standing Accounts Committee which regulate the expenditure of the College.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If yes what are the efforts made by the institution in obtaining autonomy?

Yes, the statutes permitting autonomy have been passed by the Goa University very recently. Our College, being Government, efforts of the institution are on to obtain general consensus of teaching and non teaching staff of the College regarding autonomy.

6.2.9 How does the Institution ensure that grievances/ complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

The College has constituted a Grievance Redressal Committee. Complaints and grievances if any are addressed to this Committee which deliberates on the same and takes the decisions based on the inquiry conducted. The decisions so taken are then communicated to the Principal. Complaints cum Suggestion Boxes are also installed at prominently visible places in the College premises.

Grievances relating to examination matters are handled as per provisions written in the Ordinances of Goa University.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

Neither have any court cases been filed against the College nor has the College also filed any cases against anybody.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes. The institution has mechanism for analysing student's feedback on the institutional performance in the form of the Exit Questionnaire, enclosed as annexure II. Students' council which comprises of General secretary, the student representative of each class, Ladies representative cultural secretary and sport secretary. The students voice their opinions and complains during the regular meetings in the interest of the institute.

Improvements sought by the students in the following areas have resulted in a very positive response from the College:

- Better Canteen services
- Commencement of new courses
- Installation of water filters.
- Bus service from Marcela to College and vice versa in the morning and afternoon.
- Installation of wending machines and incinerator for sanitary pads
- Automation of library underway and N-list access.
- Initiation of short term courses and training programmes.

Keeping in mind discipline issues:

- CCTV cameras installed at various places in campus.
- Outsources the security arrangements of campus round the clock.
- Outsources the cleanliness of the College to cleaning agencies.
- Requests the Goa police to monitor consistent patrolling

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

The institution motivates the members of faculty to increase their knowledge and skills by providing learning opportunities to them.

- Teaching staff of the College are encouraged to attend, participate and present papers in State/National/International seminars/ workshops/ conferences.
- Staff is motivated to apply for research projects and further courses of study and is supported in these initiatives through sanction of duty leave, study leave and necessary adjustments in their lecture schedules.
- The non teaching/office staff has received Training in computers and this has made the process of e-administration possible. Besides, the staff is also deputed to attend programs and courses intended to improve their operational and professional efficiencies. The **GPARD** which is a Goa Government initiative, conducts various short duration courses for non-teaching staff on providing Training in service matters.
- The teachers are encouraged to do their Ph.D. and further researches by availing UGC FIP and Sabbatical leave.
- Faculty improvement programs are conducted for the benefit of Staff, the College had organised E-Governance workshop for the teaching as well as nonteaching staff in October 2014.
The following staff members have availed for FIP for completing their PhD study:

Table:6.1

Year	Number of years	Name of the Faculty
17/06/2010 to 17/11/2011	One and Half years	Dr. Pravina Kerkar
23/11/2009 to 23/11/2011	Two years	Dr. Dilecta D'costa
29/06/2013 to 15/06/2015	Three years	Ms. Fatima D'souza
12/08/2013 to 13/08/2015	Two years	Ms. Radhamani Divaker
15/03/2012 to 15/03/2014	Three years	Dr. Jaison Jacob

- The Institution also grants sabbatical leave to the faculty to undertake Post – doctorate research.
- Following Faculty availed Sabbatical leave

Year	Number	Name of the Faculty
15.06.2013 to 19.07.2014	One	Dr. Beena Vernekar
02.07.2015 to 30.06.2016	One	Dr. Seema Rath

6.3.2 What are the strategies adopted by the institution for faculty empowerment through Training, retraining and motivating the employees for the roles and responsibility they perform?

- The teaching staff is encouraged to attend the orientation programme and refresher courses for career advancement of teaching staff. The fees are reimbursed by the College.
- Teaching staff are deputed to attend conferences, workshops and seminars and the registration fees are reimbursed.
- The College has a Staff Welfare Club which takes the initiative of organizing Faculty development programme and motivational programs for non teaching staff.
- The College deputed the non teaching staff for various staff improvement/ enrichment programs to improve their operating efficiency. Mostly the programs organized by the Goa Institute of Rural Development (GIRDA) for upgrading staff skills are attended by the non teaching staff.
- The College has also imparted computer Training to the non teaching staff. The Staff is computer proficient.
- Teachers are members of different prestigious Associations like Indian Academy of Sciences, Indian Council of Chemist, Association of Chemistry teachers,.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

Besides, the regular appraisal of staff by the students, this institution being a Government College, every employee, both teaching and non-teaching has to fill in the Annual Confidential Report (ACR). While the ACRs of the non-teaching staff are reviewed by the Principal, those of the teaching faculty are forwarded to the Secretary of Higher Education whose grading will determine staff eligibility to higher scales/grades under Career Advancement Scheme (CAS).

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Teacher assessment questionnaire duly filled by the students are shared by the Principal with the teachers for any improvement or appreciation. Time to time feedback about academic, Infrastructure is obtained from PTA, alumni, etc.

As mentioned in response to question 6.3.3, the remarks of the Secretary, Higher Education on the ACRs submitted by the teaching staff will have a bearing on their career advancement. The same holds true for the non-teaching staff where the appraisal of their ACRs by the Principal will determine their vertical mobility in terms of promotions as also release of salary increments. Adverse remarks, if any, are communicated to the teachers/ non-teaching staff.

Till date none of the members of the teaching and non-teaching faculty have been adversely affected on Account of the appraisal of their ACRs.

6.3.5 What are the welfare schemes available for teaching and nonteaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

The staff of the College benefit from a host of welfare measures available :

- House building advances (HBA) at the nominal interest rate of 2%.
- Motor Car Advances (MCA)
- Leave Travel Concession (LTC)
- Medical Reimbursement
- Group Insurance
- Staff Quarters
- General Provident Fund, Gratuity, NPS
- Advances for consumer durables from the GPF
- Employee's Corporative Society was formed initially from 2007 since lot of financial assistance is given by Government or banks this society had to be stopped.

- Cover under employee insurance scheme.
- Free uniform and washing allowances for class D employees
- Bus services, Canteen and gymnasium for students
- The Students Consumer Co-operative Society formation is underway, to be operated soon.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

This being a Government College, all the teaching staff is appointed by the Goa Public Service Commission (GPSC) on merit basis. However to retain the eminent faculty, support is given by the College to pursue PhD and Post doctorate. Since the College is government usually the faculty prefer to remain in government sector for the sake of security and Pension Plan after retirement. Attraction of pay commissions for example VII pay commission in the pipeline is another advantage to the government faculty. The College also invites experts from Industry and retired faculty from other Colleges. It is pertinent to note that the Government Colleges are proud to have the best faculty available today. Even in case of temporary appointments the Directorate of Higher Education follows an online transparent recruitment process.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The financial matters are handled by the Directorate of Accounts, Panaji, through proper channel i.e. the Directorate of Higher Education. There is in house accountant, Cashier and Upper Divisional Clerk and a Store Keeper.

The College has a well established and duly publicized mechanism for effective and efficient use of financial resources in the form of a well defined manual which is used as a handbook for all financial matters. To ensure scrutiny, accountability and transparency in the financial transactions of the College, the following Committees have been constituted:

- Standing Accounts Committee
- Purchase Committee
- Stock Verification Committee
- Maintenance of dead stock and consumable registers by the Departments and administration.

Instructions are being given to the office staff to prepare and submit time bound bills and other relevant bills within the shortest period.

To safeguard smooth administration the Principal has instructed the office staff to comply with all official written instructions. The Principal monitors the work efficiency of the office staff and other support staff and is the signatory to all the financial transactions up to a certain limit within the powers of the Principal. The major financial decisions are approved by the Director, in consultation with the Government, where the Education secretary, Finance secretary and the Education minister is the final authority to sanction or grant the permission

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The College has a comprehensive mechanism for both internal and external audit.

A] Mechanism for Internal Audit:

- All the salary and non salary bills are prepared and checked by the Accounts Section and then sent to the Directorate of Accounts for pre-auditing and passing the same. This is as per the Government Central Treasury Rules (CTRS).
- All the full time/regular teaching staff, including Principal, Librarian and Director of Physical Education are Grade A Gazetted Officers. Hence, they are self drawing and disbursing officers. However their salary bills and other bills like T.A/D.A, L.T.C, G.P.F advances and withdrawals, Medical and children's tuition fees Reimbursement, other housing loans and advances etc are checked by the Accounts Section of the College and pre-audited by the Directorate of Accounts.
- For all "College controlled Money" (Bank Account) there is a Standing Accounts Committee to monitor the requirements/needs and expenditure.

The Accounts of the College controlled money are audited and certified by a qualified auditor duly appointed for the purpose.

- Annually stock verification is carried out in respect of dead stocks pertaining to general stores, laboratories, sports and library.
- The College also has a Purchase Committee to identify the College needs and purchase the same through prescribed procedure.
- Cash books, budget check register, cheque register etc are maintained as per Government rules.
- Postal stamps/Government stamps account is maintained and periodically checked.
- Library fine collection, its deposit and uses are monitored.
- Monthly statement of expenditure with all the details is prepared and sent to the Government as required before the 10th of every month.

- Income tax is deducted at source as per IT law. Other employees' deductions are duly checked as part of the internal audit mechanism
- The College fee receipts are credited to the Government treasury and expenditure is met through State Government funds allocation.

B] Mechanism for External Audit:

- External Audit Committee visits the College periodically. Auditing is done by the Directorate of Accounts.
- Internal funds of the College are audited by a registered Chartered Accountant.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

- Being a Government Institution, the major finances originate from the Directorate of Accounts, Government of Goa.
- Fees received from the students are credited into the Government Treasury
- College receives grants from UGC as additional assistance on different schemes like FIP, E-accounting, development scheme etc.
- Deficit in funds if any is corrected through government allocation.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Additional funding has been sourced from:

- Research Projects of UGC
 - UGC grants under various schemes
 - Grants from the Department of Art and Culture, Government. of Goa
 - Grants from ICSSR
 - RUSA proposal is under process.
 - Industries, Banks, Government organisations sponsorships
- Government funding is available to cover any shortfall.

6.5 INTERNAL QUALITY ASSURANCE SYSTEM (IQAC)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If yes, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

The College has set up an Internal Quality Assurance Cell (IQAC) vide office order no, **GCASCK/EST/NAAC/05/1341 dated 29/10/2009** and thereafter through memorandum no. **GCASCK/EST/NAAC/05/1057 dated 13/09/2011**.

The institutional policy with regard to quality assurance is enshrined in the vision, mission goals and objectives of the IQAC

Vision Statement: Centre for Excellence

Mission Statement: To Dedicate our energy to be responsive to the needs of an ever changing society by promoting excellence in academics and art.

IQAC Goals for 2016-2017

- To encourage and facilitate use of ICT in teaching and administration
- To motivate teachers to undertake research projects
- To increase the number of add on and short-term Certificate courses
- To organize seminars and workshops at the State and National levels
- To monitor the academic excellence of students
- To conduct Faculty Development Programme for staff and Training programs for accounts staff
- To set up a language laboratory
- To make available facilities for preparing the students for competitive examinations
- To widen the reach of the Placement Cell
- To monitor students feedback on teachers, curriculum, and campus
- To set up a Research Centre in Konkani, Commerce, Political Science
- To commence Post graduate courses in Chemistry and Commerce and to obtain No objection certificate for other programs.
- To encourage students to participate in research activities
- To motivate students to take up Natural Sciences as their career.

Several mechanisms (official systems/sub systems) healthy and effective/tried out practices are being implemented in the College towards internal quality checks/good governance. They are grouped as checks for:

a. Mechanism/Process for internal quality checks for the staff

- Assessment of lecturers by the students annually.
- Self assessment by the lecturers through annual confidential reports (ACR) forms where the Principal is the reporting officer.
- Regular staff meetings
- Monthly reports of the Committee's activities.

- **Punctuality and Accountability.**
Bio-metric system of attendance for teaching & non-teaching staff, CCTV, muster roll, movement registers, attendance records of lectures taken.

- **Leave record**
 - The teaching staff is entitled for Duty leave, Child Care Leave, Sabbatical leave, Earned Leave, as per the statutes of Goa University and recruitment rules of Government of Goa.
 - The accountability of staff members is reflected in the fact that Joining reports are to be submitted after availing respective leave.
 - Attendance Certificates and report of seminar, workshop attended are to be submitted after availing duty leave.
 - Report of the research work carried out during sabbatical leave has to be submitted through proper channel to the Directorate of higher Education for compliance.

- **Assessment of Teachers**
 The College has the feedback mechanism from students in the form of Assessment of lecturers by students, feedback is obtained from PTA and Alumni and community during meetings.

b. Mechanism/process for internal quality checks for the students

- Regular counselling for improvement by the class counsellors/teachers and conduct of remedial classes.
- Students have to submit reports after attending educational/study tours, industrial visits, etc. these are then displayed on the Gallery or notice Board of the College or Departments.
- Students Mentoring Committee, where students are guided for their personal & academic problems.
- Attendance: 75% Attendance is compulsory. Regular counselling of students in case of absentees is done by respective teachers. Absentees are confronted with explanation. And If the frequency increases, parents are informed accordingly.

- Internal Semester Assessment is carried out twice in a semester this checks the academics of the students. Assignments, projects, presentations, posters submission monitors the quality of academic interests of the students.

c. Other miscellaneous checks of internal quality

- Accounts Standing Committee to maintain scrutiny and transparency in College controlled accounts.
- Purchase Committee decides purchases of College requirements.
- Canteen Committee is constituted to monitor and check the prices and quality of services offered in the Canteen.
- Default liability period for three years from 2015 -16 is signed with Infrastructure and Development Corporation (GSIDC) for the maintenance of the Infrastructure.

- Library facility Students with valid library cards are allowed in the library special demand slip system is in place to check the delay of submission of books.
- Examination quality check: Compulsory hall tickets for V and VI semester students from the Goa University and scrutiny of the fee receipts for Semesters I, II, III and IV students during examinations. .
- Laboratory quality check: students are not allowed without their aprons, safety goggles and masks.
- Security check: disciplined security system does not allow strangers to enter in the College campus. Safe parking facility for staff and students in the stilt area of the building. Fire extinguishing facility through pipelines with sensors to detect fire is set and maintained regularly.
- Power supply and Water supply issues are resolved by Electricity Department and P.W.D efficiently.
- Minor issues if any are addressed to the Principal and are carried out at the College level.

b. How many decisions of the IQAC have been approved by the management/authorities for implementation and how many of them were actually implemented?

The following decisions of the IQAC have been approved since its inception.

1. Constructed new College building (Inaugurated on 7th July 2015)
2. Use of ICT in teaching and administration.
3. undertaking of research projects
4. Organizing seminars and workshops at the State and National levels
5. Conducting FDPs for staff and Training programs
6. Students' feedback on teachers, curriculum and campus
7. Setting up a language laboratory
8. Setting up of a Post Graduate Centre in Commerce
9. Commencement of Post Graduate Course in Chemistry
10. Setting up of Chemistry, Konkani, Political Science and Commerce Research Centres
11. Mentoring system commenced from 2016-17
12. Online feedback to be implemented from 2016-17.
13. commencement of online courses in "spoken tutorials " for all the students of the College.

The above decisions of IQAC are implemented till 2015-2016 and following decisions are yet to be implemented in 2016-1017.

14. Automation of the library.
15. Link IQAC to the College website.
16. NSS coordinator to bring out a report on NSS unit for last 5 years

17. Wi-Fi Connection to be made available for both teachers and students
18. Initiative to start Entrepreneurship Programme
19. Students consumer cooperative store launch.
20. Signing MOU with Goa Pollution Board and GIM, Sanquelim, Goa.
21. Procurement of Bio waste converter through GSIDC.
22. Decision to include one representative from Syngenta India limited.

c. Does the IQAC have external members on the Committee? If so, mention any significant contribution made by them.

Yes. Shri. Vitthal S. Sukhthankar, Mr. Carlos Fernandes, Shri. Swapnil Kamat, Shri. Siddharth Palang, Shri. Kashinath Naik and Shri. Vitthal Navelkar are the external members on the newly reconstituted IQAC.

Shri Siddharth Palang sponsored the Paper cutting Machine. **Mr. Vithal Sukhtankar** agreed to explore the possibilities of signing MOU with GIM. **Mr. Swapnil Naik** accepted to organise career guidance programmes and prepare database of ex-students.

d. How do students and alumni contribute to the effective functioning of the IQAC?

- Students and alumni play an active role in the realization of the goals of the IQAC. Students give their feedback on the curriculum, campus and teachers which helps in the process of monitoring the progress and ensures reforms for qualitative improvement of the institution.
- The alumni are invited as resource persons to share their experience and expertise with the students.
- The Students' Council give all suggestions to Class Representative and University College Representatives bring awareness about College, university rules, students, etc
- PTA & Alumni encourage students to participate in different co-curricular activities by sponsoring lots of prizes
- Alumni also provide placements for students

e. How does the IQAC communicate and engage staff from different constituents of the Institution?

The decisions taken by the IQAC are communicated by the Principal who is the Chairperson of the IQAC to the various stakeholders through the mechanism of meetings, Emails, notices etc.

6.5.2 Does the institution have an integrated framework for quality assurance of the academic and administrative activities? If yes, give details on its operationalization.

Yes, the Academic Calendar, prospectus, magazine, the Examination Planner are in-built mechanisms created to ensure academic and administrative

quality assurance. The various Committees, statutory and non-statutory monitor the effective operationalization of the College activities.

The Chief Examination Officer: to monitor entire examination effectively

NSS report: all the activities are carried out by NSS Committee

6.5.3 Does the institution provide Training to its staff for effective implementation of the quality assurance procedures? If yes give details enumerating its impact.

- Every year an orientation programme for the newly recruited contract basis and lecture basis staff is organized by the College in association with the Directorate of Higher Education.
- Training programs are organized for the staff on the use of new technology.
- Training has been provided to make the administrative staff computer literate. The teaching staff and non-teaching staff are allowed to participate in seminars at state, national and international level to update their knowledge. Staffs is encouraged to pursue their PhD.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If yes how are the outcomes used to improve the institutional activities?

External Academic Audit: No.

Internal Academic Audit:

Feedback obtained on the curriculum, teacher's performance is reviewed and relevant information is used to improve the academic plan. The ACRs of the faculty are reviewed by the Principal and then examined by the Director, Directorate of Higher Education. The question papers set are checked by the HOD before submitting to Examination Section, so also the answer books are thoroughly scrutinized to verify any discrepancies

6.5.5 How is the internal assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The College has taken initiatives to ensure that its internal quality assurance mechanisms are consistent with the requirements of agencies such as the NAAC, RUSA and the affiliating University.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- Teachers' assessment by students
Institution has mechanism to gather feedback from the students of the teachers.
- Two ISAs are required to appear for Semester End Examination where first ISA is written and second is assignment or Quiz
- Attendance Committee
The lectures taken are signed by the concerned teachers on the attendance sheets which thereby gives the evidence of accountability of the students.
- Examination Committee
The results of the students at the end of the semester reflect the efficiency of teaching learning process.
- ACR
The teachers are expected to submit the ACRs which enable them to get higher grades and thereby check the efficiency.
- Counselling or mentoring
The registers are kept in the respective Departments after mentoring is carried out.
- All of the above mechanisms make the teaching- learning process vibrant and effective.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Quality assurance policies are communicated to the various stakeholders through the College website, College magazine, prospectus, press notes and also through PTA and Students' Council meetings.

Time to time announcement in the form of public address system

Each teacher's verbal communications through mobiles, whatsapp groups, facebook, emails, notice boards, etc.

CRITERION VII

INNOVATIONS AND BEST PRACTICES

7.1 ENVIRONMENTAL CONSCIOUSNESS

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

The Report of the Green Audit for the Institution though not conducted in the past, the process of the same has now commenced.

Green Building

The Arts and Commerce building is a *Green Building* as it fulfills the criteria laid down by the Green Rating for Integrated Habitat and Assessment (GRIHA). According to the criteria laid down by the GRIHA the Arts and Commerce building was constructed by the Goa state Infrastructure Development Corporation (GSIDC). This is the first educational institution in Goa that has a Green Building.

The Government College, Khandola is nestled in the lap of nature. The college has a clean and healthy environment. The students and staff of the college are environmentally conscious and has always taken the initiative of protecting and promoting a healthy environment.

Tree plantation

Tree plantation drives have been undertaken by the NSS unit of the college. There are fruit bearing plants, flowering trees, ornamental plants in the college premises.

The Nature Club distributes saplings to the community in and around Marcela so as to encourage the community to grow more trees and enhance the environment.

State Level Seminars/Workshops

To address issues of environmental concerns, arouse public consciousness towards the depletion of the environment, State Level Seminars/Workshops were organized.

State Level Seminar on *Environment: Issues Concerns and Alternatives* was organized on issues on mining and climate change with special reference to Goa, and measures for sustainable environment.

Swachh Bharat NitalGoem: Mission Inspired by Patriotism was a State Level Workshop organized to create environmental consciousness on matters of promoting a clean and healthy environment in Goa. The resource persons addressed the participants on making Swachh Bharat a Reality, the need for Swachh Bharat NitalGoem and measures that can be adopted for achieving Swachh Bharat.

National Environment Awareness Campaign

The Nature Club of the college participated in the National Environment Awareness Campaign funded by the Ministry of Environment and Forests, Government of India.

Under the *Awareness Campaign* a number of activities were organized based on themes such as:

Forests for Sustainable Livelihoods: nature trail to the Bondla Wild Life Sanctuary, Poster Competition on 'Significance of Forests' and 'Impact of Climate Change' was organized.

Renewable Sources of Energy: Reducing Carbon Footprints: Participants were exposed to solar energy equipments and gadgets. Talks and competitions on renewable sources of energy were promoted.

The Nature Club has signed an MOU with the Bharatiya Agro Industries Foundation Development Research Foundation, Pune the nodal agency to conduct the National Environment Awareness Campaign.

Hikes

The students are taken on hikes to create in them a sense of belongingness and respect for nature. The students learn about the flora and fauna about the place. The students come back enriched about the environment.

Environmental Studies

A compulsory paper on Environmental Studies has been integrated in the curriculum for the first year students of the college in which they learn about importance of environment, protection of environment, impact of human activities on environment and various environmental issues.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The college has undertaken the following initiatives to make the campus eco-friendly:

1. Energy conservation

- *Solar energy*: is used to illuminate the street lights in the campus, corridors and washrooms in the Arts and Commerce building.
- *Use of LED and CFL* bulbs are used in classrooms and laboratories to conserve energy.
- *Sensitization to conserve energy*: Concerted efforts are made by the faculty members to sensitize the students to switch off the fans, lights and other electrical equipment in the departments, laboratories and college premises after use. The students are regularly sensitized to use water and electricity judiciously and only when required. Guidelines are drawn and maintained in the laboratory and library to shut the power off when not in use.
- *Minimize ozone depleting substances*
All insulation used in the building is CFC and HCFC free.
All AC equipment is CFC free.
The fire-suppression systems and fire extinguishers is halon free.

2. Use of renewable energy

- *Solar power generating system*
To ensure use of renewable energy, 25 solar panels are installed in the premises. The solar power generating system illuminates street lights in the campus and corridor lights in the Arts and Commerce building.

- *Field Trips*

Students are sensitized and made aware of the renewable sources of energy through field trips to the Goa Energy Development Agency, Pilerne. The students were exposed to the various equipments and gadgets run on solar energy like solar cooker, harvesters, threshers and so on. State level poster

competition and model building competition inculcated in students the use of renewable sources of energy. The institution is making several efforts to sensitize and create an awareness among the future generations about renewable sources of energy.

3. Water harvesting

- *Rainwater harvesting tank* of 80,000 litres is provided on site to collect the storm water drain built by the Goa State Infrastructure Development Corporation. Provisions are made for rain water harvesting in the campus.
- *Conservation of water by departments* is carried out to conserve and save water. The Department of Chemistry has an electrical motor which is used to circulate water during preparation of distilled water, which saves lot of time water consumption and electricity. In the Department of Microbiology sterilization and decontamination of glassware is undertaken in big batches instead of individually.

4. Efforts for carbon neutrality

- *Green Building* the Arts and Commerce building is a green building as per the criteria laid down by the Green Rating for Integrated Habitat and Assessment (GRIHA).
- *Car-pooling* is emphasized and undertaken by the staff, no paper burning instead the Paper shredding machine procurement is in the offing by one of the members of IQAC representing the community, to reduce carbon footprints.
- *Natural lighting* classrooms are built to capture natural lighting and thus reduce the use of artificial lighting.
- *Dust Free Classrooms*
The classrooms have been fitted with green boards. There are also white boards installed in the classrooms. This ensures a dust free teaching –learning environment.
- *Ban on smoking*
Smoking is not permitted in the college campus. Sign boards displaying NO SMOKING are displayed in prominent and visible places in the college premises.

5. Plantation

- NSS/Alumni Association undertakes tree plantation drives. Plantation awareness drives are carried out by Nature Club. Plantation around the new building is in process.

6. Hazardous waste management

- *Reducing use of plastics* by encouraging the students to make and use cotton bags undertaken by the NSS unit of the college. The NSS unit also undertake the disposal of plastic milk bags by collecting these bags and then returning them to the Goa Milk Producers Co-operative Federation for recycling. Disposal of concentrated acids is taken care of by storing the used acids.

7. E-waste management

- *Disposal of obsolete computers*
E-waste is disposed of as per the rules, regulations and procedure laid down by Government of Goa. Initiatives were taken to dispose the old computers present in the Computer Laboratory with the help of Department of IT, Goa Government. Auctions/buyback policy as laid down by the Department of Information Tech, Government of Goa.

Accordingly the Department of Information Technology through its Standing Condemnation Committee (SCC) conducted onsite inspection in the Department of Computer Science, Government College, Khandola. The SCC committee analyzed the status of the hardware and recommended the appropriate mode of condemnation. In all, 26 desktop computers, 22 UPS, 9 printers and 01 modem were condemned. The mode of condemnation is either buy back or disposal.

7.2 Innovations

7.2.1 Innovations introduced

The College has introduced various innovations that have shown a positive impact on the functioning of the college. The Institution has implemented various innovations in the teaching learning process.

- **Automatic College Bell is indigenously developed by Department of Physics.**

This project aims at complete elimination of man power requirements utilized for the task of ringing college bell at predetermined time. Since the job of ringing the bell has to be done efficiently in specific time intervals, one cannot do this along with other routine work. As a result one peon/attendant has to be exclusively assigned the job of ringing the bell. The scarcity of adequate man power created a need for automation of this process.

A multipurpose microcontroller based programmable timer circuit forms the heart of the device which was purchased from an electronic component store. Other required accessories like power supply board and control boards are designed and developed in the Physics laboratory. The Timer circuit boards along with other accessories are assembled in a locally fabricated cabinet having lock facility. The bell is designed to incorporate an appropriate ringing cycle by means of embedded program feed through a control panel provided on the front portion of the assembly unit. The current time and the working status of the bell are displayed on the LCD screen provided on the front panel of the device. This college bell is in use since 2012 with adequate adaptations in program in accordance with the yearly college time-table. An appropriate change in program takes care of examination requirements which run in two shifts. The expenditure for the said project is incurred from the UGC fund allocations. (XIth Plan)

- *Working model of biogas plant*

Our Microbiology students constructed a small portable pilot mode of a biogas plant which won the first place at a competition held at Shivaji University, Kolhapur.

The S.Y.B.Sc. Microbiology students of our College prepared a small working model of biogas plant, capacity 5 litres using a mixture of cow dung and water as raw material. The gas produced was collected in a small inner tube obtained from a scooter tyre. The gas was controlled by valves and could be used to light a small single burner for limited period of time i.e. 15 minutes. The project was presented at Biocomp 15 held at Department of Microbiology Shivaji University in collaboration with Microbiological Society of India - Dr. Deshmukh. The model was awarded 1st place as it could be easily transported from different locations and used as a demonstration model for farmers, etc.

- *Field Trips*

Besides classroom teaching, various Departments regularly organize field trips to Goa Legislative Assembly, Village Panchayats, GIPARD,

spice plantations, Institute of Psychiatric and Human Behaviour, Indian Council Agricultural Research, study tour to various research institutes and industries in other States.

- *LCD Projectors* in class rooms has helped in the easy understanding of the subject. The new wing of the college has a full fledged Commerce laboratory and I.T laboratory and project rooms for discussions that has helped students to enjoy learning.
- *Creative and communication skills*

The Departments encourage students to participate in various competitions held in other institutes, universities and Colleges, to make models, wall papers and power point presentations thus improving their creative and communication skills.

- *Book bank*

In the Library there is a Book Bank Scheme wherein students are offered a maximum number of text books. This scheme enables students especially the underprivileged to acquire books in their subjects for the academic year. There is also an in house publication section in the Library with the following in house publications Mahashala College Magazine, Khoj College research journal, Hand book of Library holding, Spot light Newsletter, Campus Glitters (News Bulletin). *Over Night book issue* facility is provided to the third year students of the College.

- *Counsellor*

The College has a counsellor who provides personal counselling to the students on issues that affect their mental health. The services of the counsellor has benefitted the students a great deal in their personal and academic life.

Safety System: The new building is safeguarded with an innovative approach towards safety of the building and the stake holders by means of Fire system installed with sensors which get activated upon increase in temperature of the surrounding.

7.3 Best Practice

I. Title of the Best Practice

Extension of services to community (for water analysis, microbial flora of fruits and vegetables from local market for use in fermentation, study of *N₂* fixers in order to increase yield of *Phaseolusvulgaus* – kidney beans)

1. Goal

Aims and objectives

- To give the students hands-on experience in analyzing environmental samples.
- To determine portability of water in the surrounding villages.
- Waste management by using bacterial & fungal cultures.
- Use of bacterial symbionts in local crops to improve yield.

2. Context

- The students need to be familiarized with how to use the techniques that they have learnt in the syllabus for analyzing samples from the surrounding environment.
- The data obtained can prove to be useful to the local population.

3. Implementation of the Best Practice

The Microbiology department every year takes up projects for the T.Y.B.Sc. students which would be beneficial to the local population. The analysis of well water samples from the surrounding villages of St. Estevam, Cumbharjua and Marcel was carried out. In case of wells in which pathogens were encountered, the results were communicated to the residents who consume the water and they were advised to periodically use KMnO_4 to purify the well water.

The rotten fruit and vegetables discarded at the weekly local market were collected and used for citric acid production by using a fungal inoculant. Thus getting rid of the waste and producing a useful metabolite during the process. The N_2 fixing bacteria *Rhizobium* was isolated from kidney beans as well as *Gliricidia* roots and their potential as biofertilizer agents was tested for the *Phaseolus vulgaus* crop which is cultivated in the surrounding villages.

The bacterial flora of the Mandovi River was studied from source to mouth thus obtaining an overall picture of pollution during pre-monsoon to post-monsoon seasons.

4. Evidence of success

- Students learn to plan and carry out independent work.
- Learn to document, analyze and interpret data.
- They again experience on interacting with local population, authorities & different government departments.
- The local population also benefits from the results of the projects.

5. Problems encountered

- Obtaining samples from various places.
- Some laboratory equipment like PCR machine etc. is not available in the laboratory.

II. Title of the Best Practice Academia – Industry Interface

The Institution emboldens Academics with Industry through various industry related initiatives.

1. Goal

Aims and Objectives

- To expose students to the world of work.
- To make them understand the work culture in industry.
- To create an awareness of the opportunities available and make the maximum use of such opportunities.

2. Context

It is our prime duty to prepare the students for the world of work. The academics provide them with theoretical knowledge. They need to be aware of what is expected of them and knowledge of how to get there. Exposing students to the industrial environment will make them realize the expectations of industry, the work culture and work ethics. Students can then prepare themselves accordingly. This will enable them to be employable once they graduate.

3. Implementation of the Best Practice

Academia – Industry Interface is promoted by the Institution through various initiatives.

- Practical insights and exposure to the industrial world through study visits, field trips, educational tours, industrial visits, and project work is adopted by the various Departments.
- Workshops are conducted to train students to get accustomed to the world of work and the work culture expected in industry.
- Lectures, talks, discussions with experts from industry are held from time to time which provides the students with the much needed exposure to the industrial life.
- Students do Industry based projects. By going to the industry to collect data they get first-hand experience of the industrial culture.

4. Evidence of Success

- Students realize the need to groom themselves for a brighter future.
- Students are prepared to face the basic requirements of industry.
- Students become independent, confident and decisive.
- They learn to adjust and also are exposed to various work cultures.
- A passion for learning something new about industry is created amongst the students.

5. Problems encountered and resources required

- Motivating students to realize the importance to get acquainted with industry and expectations from industry.
- Obtaining the required permissions from industry for visits and field-trips.

6. Notes

The Best Practice described above, by the Institution prepares the students for a better future. They will get an overview of the prospects in industry and are prepared to face the challenges. Our students being mainly from rural areas and first generation learners need to understand the world of work. The work culture and work ethics expected of an employer/employee in an industry. The academia-industry interface is one such practice that will make them realize the different facets of a whole new world outside the campus.

III. Title of the Best Practice

Club "Spektrum" by Chemistry Department

The Chemistry Department instituted a club called "Spektrum" on 2nd February 2016, for Chemistry students.

1. Goals

- a. To inculcate an interest in learning Chemistry at the undergraduate level and to promote education in Chemistry by correlating with mankind and environment through experiments.
- b. To acquaint individuals with current trends in Chemistry and to provide opportunity for individual participation and professional growth.
- c. To develop student's awareness and concern for issues in chemistry related to social, environmental and technological contexts.

Motto of the club is “CHEMISTRY IS FUN”

Vision “LET THE RAYS OF KNOWLEDGE REACH TO YOU”

2. Context

Students can apply knowledge of chemistry in day to day life and enjoy it rather than considering it as a burden and studying it only for the purpose of scoring in tests. To make the students read and write in their own words as they are not accustomed to this habit in the present era of technology. To prepare the students to participate in competitions, group discussion which will enhance their confidence.

3. Implementation of Best Practice

The club focuses on activities like industrial visits, guest lectures, quizzes, competitions to increase knowledge of chemistry and apply it towards understanding and conserving environment around.

Since the students are the office bearers of the club, they learn to handle the situation, meet the deadlines, manage the accounts, shoulder various responsibilities, get associated with the community around during the awareness programs, they get their soft skilled refined. All these attributes aim at the holistic development of the students.

Following activities were carried out as a part of “Spektrum” club in the year 2015-16.

- Chemistry Quiz - An intra class chemistry quiz competition,
- Poster -A poster competition was organised on the theme “Chemistry - yesterday, today, tomorrow”.
- Ex-Tempore -A topic on chemistry in everyday life was given on the spot to students for effective public speaking.
- Action-Reaction-Demonstration of simple chemical reactions and chemistry behind the reaction was expected from the students.
- Nutri-chem -A Cooking competition on the theme cooking without fire, where the nutritional value and the name of the chemicals involved in the ingredients used was the key aspect.
- Flori-chem. (Chemistry of flowers)-The competition was based on arrangement of flowers grown in garden and wild flowers. Explanation on the basis of chemistry of flowers and the pigments present in flowers was expected from the students during judgement.

4. Evidence of Success

Success accomplished at Kynesis

A one day intercollegiate chemistry event KYNESIS was organised for B.Sc. students on 20th February 2016 by Parvatibai Chowgule college of Arts and Science. Various competitions like Chemistry quiz, poster making ("Chemistry - yesterday, today, tomorrow"), Action-Reaction (Demonstration of chemical reaction), Oral presentations were organised. Our students won *first place* for the following events:

- Poster making ("Chemistry - yesterday, today, tomorrow")- Dixit phadte and Charant Naik
- Action Reaction- Stacy Remedios and Schubert Fernandes
- Oral presentation- Schubert Fernandes
- The first place winners Trophy for the event Kynesis was awarded to our College.
- Annual convention of Chemistry Teachers was held on 24th February 2016. There was a poster competition organized on the theme "Green chemistry" for B. Sc. students. The students Sanam Vaingankar and Madhuri Naik participated and won first place in the competition.
- Workshop on "Safety in Laboratory "organized on 30th April 2016, The students displayed their artistic talents, organizational abilities, compering skills, Division of labour, Team work, aesthetic tastes, culinary skills, shouldering responsibility during the conduct of this workshop.

5. Problems Encountered and resources required

Motivating and convincing the students to participate in the competitions. Time constraint, organizing the competitions for different classes beyond the working hours. Judging of the events was difficult as the competitions were held beyond class hours. Resources required were partly covered by college and partly by the students under spectrum fund.

6. Notes

- This practice helps in all round development of students.
- They are exposed to different competitions where in their practical skills, knowledge, team work, are strengthened.

- Students can overcome their stage fear, lack of confidence and this has been indicated by their performance in intercollegiate competitions.
- The enthusiasm of students is heightened this give slot of positive energy to the Department to work in tandem with each other.
- The rapport of the students and the teachers is intensified and thereby building bridges rather than constructing walls.
- The outcome of this practice is that the students learn the art of overcoming the difficulties emerging as the champions.

IV. Contact Details

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Website: www.khandolacollege.edu.in

Mobile: 9422440970

NAAC : POST ACCREDITATION INITIATIVES

ACCREDITATION STATUS : B+

DATE : 21/10/2005

The College has tried consistently to build on the suggestions of the NAAC peer team which visited in 2005. We believe that the facilities and the environment can be improved in order to bring the college to new heights, it requires adding some more new facets and facilities like:-

Suggestions and follow up actions taken

1. Some new courses in all the faculties may be started in order to have more options to the students as per their choice and provide opportunities of post graduate education.

The College being run under the management of a governmental frame work, had to utilise a realistic amount of time for creation of infrastructure, the base necessity for introduction of new courses.

Department of Chemistry and Microbiology introduced B.Sc. with 6 units in 2010-11. Earlier only B. Sc (3 units) in the respective subjects was offered, where the scope to pursue postgraduate course was less and employability factor was low.

The introduction of T.Y. B. Sc with 6 units i.e. major in Chemistry and Microbiology facilitates the students get to admissions to pursue post graduate courses and get better employment opportunities.

Now that the infrastructure is in place, the college has initiated the process of introduction of post graduate programs in Department of Chemistry and Commerce. Research Centre has been set up in languages and Political Science.

2. As majority of the students are found to be girls it is necessary to add certificate or degree courses in home science.

Since the College is placed in a small state and the requirement of man power in the subject of Home Science is fully complied with by the lone dedicated Home Science College situated in the vicinity, introduction of a course in home science is found to be non feasible. However one faculty member from our college is holding the additional charge as Principal of the lone Home Science College in the state of Goa and collaborative programs intended to benefit the girl students are conducted regularly.

3. Teachers be encouraged to attend National and International Conferences and they may be provided additional opportunities for research and completion of their Ph.D programs.

The College had taken note of this suggestion positively, turned in policy and priority, streamlined the administrative procedures and allocated funds by managing the budget and seeking assistance from UGC. This translated into the formation of a research culture in the institution ensuing completion of Ph.D's, effective participation in national and international conferences and publication of research papers in reputed national and international journals having creditable impact factor index. Two faculties, Dr. Beena Vernekar and Dr. Seema Rath have availed sabbatical leave for the period of one year from 2013 to 2014 and 2015 to 2016 respectively and have made significant contribution to research in their respective fields.

4. They may be provided special assistance in establishing research laboratories and are advised to seek post graduate and Ph.D guide recognitions

Applications for recognition as post graduate teacher and Ph.D guide belonging to the faculty members were forwarded to Goa University. Research level equipments were developed /purchased in Physics and Chemistry departments.

5. Short term value education courses and computer literacy courses can facilitate revenue generation.

The faculty of the Computer Science Department conducted a Certificate course in web development in ASP.NET and C# with SQL server for the 24 students of the department. The course was of three months duration and certificates were provided to the students. The course covered Database connectivity with SQL server and Generating webpage using ASP.Net

A Certificate course on PHP and MYSQCL was also conducted by computer science department.

6. Computer laboratory can be expanded for revenue generation through projects from industries.

The Computer laboratory has been expanded by adding more machines and the software required. The above courses have generated revenue as per the suggestions. The Computer Science Department envisages to start online courses with IITs, and other engineering institutions shortly.

7. On acquiring recognition of UGC under 2f and 12B the college can draw ambitious plan for its development.

College already acquired the recognition of UGC under 2f and 12B and has availed the grants under XIth plan of UGC.

8. State Government can encourage this college having high potential for manpower development by allowing agro based and socially relevant subjects.

- Proposals for introduction of appropriate courses in current relevant field are communicated to the government.
- Since the college has good interface with Syngenta India Limited, relevant courses shall be restructured and commenced from the next semester.
- A workshop on “Safety in Laboratory” was organized on 30th April 2016 for the School, Higher Secondary and College teachers and Laboratory staff.
- Department of Chemistry in association with the Goa Pollution Control Board has sent a proposal to DST for starting up a certificate course in effluent treatment, water analysis and workshop on solid and hazardous waste management.

EVALUATIVE REPORT OF THE DEPARTMENT

MICROBIOLOGY DEPARTMENT

1. Name of the department: **Department of Microbiology**
2. Year of Establishment: **June 1990.**
3. Names of Programs/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG: B.Sc. 6 units.**
4. Names of the interdisciplinary Courses and the department / unit involved:
Certificate Course in Water Analysis with the Department of Chemistry.
5. Annual/ semester/ choice based credit system (programme wise):
B.Sc. Microbiology–Semester system.
6. Participation of the Department in the courses offered by other departments:
Certificate Course in Water Analysis with the Department of Chemistry.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:
Certificate Course in Water Analysis with the Department of Chemistry in collaboration with the Directorate of Health Services, Goa State Pollution Control Board.
8. Details of courses/ programs discontinued (if any) with reasons: **Nil**
9. Number of teaching posts:

Designation	Sanctioned	Filled
Associate Professor	02	02
Assistant Professor	01	01

10. Faculty profile

	Qualification	Designation	Specialization	No. of Years of Experience	No of students guided for the last 4 years
Dr. Dilecta D'Costa	Ph.D.	Associate Professor	General Microbiology	25	Nil

Mrs. Marina Albuquerque	M.Sc., NET (Reg. For Ph.D.)	Associate Professor	General Microbiology	21	Nil
Dr. Sushanta Sapte	Ph.D., SET	Assistant Professor	General Microbiology	15	Nil
Ms. Sushma Dessai	Ph.D. submitted, SET	Assistant Professor on Contract basis	General Microbiology	01	Nil
Ms. Raksha Anvekar	M.Sc	Assistant Professor on Lecture basis	General Microbiology	02	Nil
Ms. Ninoschka Pinto	M.Sc	Assistant Professor on Lecture basis	General Microbiology	-	Nil

11. List of senior visiting faculty:

Dr. Nandkumar Kamat, Scientist, Goa University

Dr. Miguel Braganza, Horticulturist, Ex-Director, Agriculture Department, Goa

Dr. A. Parulekar, Member Secretary, Goa State Pollution Control Board.

Dr. Sachin Tendulkar, Sr. Scientist, Department of Science and Technology, Goa.

Dr. Anthony, Sr. Scientist, National Institute of Oceanography, Goa.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Lectures	Practical's
2011-12	20%	25%
2012-13	20%	25%
2013-14	20%	25%
2014-15	-	15%
2015-16	15%	20%

13. Student Teacher ratio (Programme Wise):

Year	Student:Teacher Ratio
2011-12	15:1
2012-13	14:1
2013-14	20:1
2014-15	17:1
2015-16	20:1

14. Number of Academic support staff (technical) and administrative staff, sanctioned and filed.

	Sanctioned	Filled
Laboratory Assistant	01	01
Laboratory Attendant	02	01

15. Qualification of teaching faculty with DSc / D. Litt / Ph.D. / MPhil. / PG.:

Name	Qualification
Dr. Dilecta D'Costa	M. Sc. PhD
Mrs. Marina Albuquerque	M. Sc.
Dr. Sushanta Sapte	M. Sc. PhD
Ms. Sushma Dessai	M. Sc.
Ms. Raksha Anvekar	M. Sc.
Ms. Ninoschka Pinto	M. Sc.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received. : **Nil.**

17. Department projects funded by DST- FIST; UGC, DBT, ICSSR, etc. and total grant received: **Nil.**

18. Research Centre / facility recognised by the University: **Nil.**

19. Publications:

a) Publications per faculty:

1. Dr. Dilecta D'Costa

1) **D'Costa D.**, Bhosle S.N., Dhuri R.B. Kalekar, S., Rodrigues, J., Doijad, S.P. and Barbuddhe, S. B. (2012) The occurrence and characterization of *Listeria* species isolated from milk production chain. *Milchwissenschaft* 67: 43-46. **NAAS ID: M039 NAAS Score: 6.28**

2) **D'Costa D.**, Saroj N. Bhosle, R. B. Dhuri, S. P. Doijad, K. V. Poharkar, D. R. Kalorey, S. B. Barbuddhe (2013) Prevalence, Serogroups, Shiga-toxin Genes and Pulsed Field Gel Electrophoresis Analyses of *Escherichia coli* Isolated from Bovine Milk. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences* 83(3) : 423-429. **NAAS ID: P120 NAAS Score: 6.00**

3) Doijad S. P., Barbuddhe S.B., Garg S., Kalekar S., Rodrigues J., **D'Costa D.**, Bhosle S. and Chakraborty T. (2011). Incidence & genetic variability of *Listeria* species from three milk processing plants. *Food Control*, 22:1900-1904. **NAAS ID: F039 NAAS Score: 8.74**

- 4) Kalekar S., Rodrigues J., **D'Costa, D.**, Doijad, S. P., Jangam, A. K., Malik S.V.S., Kalorey, D.R., Rawool, D.B., Hain T., Chakraborty, T. and Barbuddhe S.B. (2011). Genotypic characterization of *Listeria monocytogenes* isolated from humans in India. *Annals of Tropical Medicine and Parasitology*. *Annals of Tropical Medicine & Parasitology* 105:351-358. **NAAS ID: A147 NAAS Score: 7.31**
- 5) Rodrigues, J., **Kalekar, S.**, Doijad, S.P., Poharkar, K., D'Costa, D. and Barbuddhe, S. B. (2015). "**Prevalence and characterization of *Listeria* spp. from seafood**". Indian Journal of Fisheries, 62(1), 139-143.

2. Dr. Sushanta Sapte

- 1) **Kalekar, S.**, Rodrigues, J., D'Costa, D., Doijad, S., Malik, S.V.S., Kalorey, D.R., Rawool, D.B., Hain, T., Chakraborty, T. and Barbuddhe, S.B. "**Genotypic characterization of *Listeria monocytogenes* isolated from humans in India**".(2011) *Annals of Tropical Medicine and Parasitology*, Vol.105, No.5, 351-358. **NAAS ID: A147 NAAS Score: 7.31**
- 2) D'Costa, P.M, **Kalekar, S.** and Bhosle, S. "**Diversity of free-living and adherent bacteria from mangrove swamps**". (2004). *Indian Journal of Microbiology*. 44(4),247-50.
- 3) Doijad, S. P., Barbuddhe S.B., Garg, S., **Kalekar, S.**, Rodrigues J., D'Costa, D., Bhosle, S. and Chakraborty, T. (2011). "**Incidence and genetic variability of *Listeria* spp. from three milk processing plants**". *Food Control*, 22: 1900-1904. **NAAS ID: F039 NAAS Score: 8.74**
- 4) D'Costa D., Bhosle S.N., Dhuri R.B., **Kalekar, S.**, Rodrigues, J., Doijad, S.P. and Barbuddhe, S. B. (2012). "**The occurrence and characterization of *Listeria* species isolated from milk production chain**". *Milchwissenschaft* ,67: 43-46. **NAAS ID: M039 NAAS Score: 6.28**
- 5) Doijad, S.P., Vaidya, V., Garg S., **Kalekar, S.**, Rodrigues, J., D'Costa, D. "**Isolation and characterization of *Listeria* spp. from raw and processed meats**". *Journal of Veterinary Public Health* 8 (2), 83-88.
- 6) Rodrigues, J.,**Kalekar, S.**, Doijad, S.P., Poharkar, K., D'Costa, D. and Barbuddhe, S. B. (2015). "**Prevalence and characterization of *Listeria* spp. from seafood**". Indian Journal of Fisheries, 62(1), 139-143.

3. Ms. Sushama Dessai

- 1) **Patil S**, Fernandes J, Tangasali R, Furtado I (2014) **Exploitation of *Haloferax alexandrinus* for biogenic synthesis of silver nanoparticles**

antagonistic to human and lower mammalian pathogens. J Clust Sci 25:423-433.

- 2) Pavaskar P.A., Patil S.S., Furtado I., Salker A.V. (2013). **Synthesis and evaluation of Antibacterial activity of water-soluble copper, nickel and zinc tetra (n-carboxylacrylic) aminophthalocyanines.** Med Chem Res. DOI 10.1007/s00044-012-0427-x.
- 3) Pavaskar P.A., Patil S.S., Furtado I., Salker A.V. (2011). **Synthesis and antimicrobial activity on Manganese tetra (n-carboxylacrylic) aminophthalocyanine.** Biointerface Res Appl Chem. 2(4):374-379.

4. **Ms. Ninoschka Pinto**

- 1) Arunodhayan Sam Solomon D, Charles Henri, Sushmitha, Charles, Paartha, Melwin, Timothy, **Ninoschka** (2015) **Neuron the Memory Unit of the Brain**(IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 17, Issue 4, Ver. III (July - Aug. 2015), PP 48-61.

Chapter in Books:

- 1) **Dr. Dilecta D'Costa** has written a chapter entitled “ Prevalence of *Listeria* in Milk from farm to table”, pages 263-288, in the book entitled “ Bioprospects of Coastal Eubacteria -Ecosystems of Goa. Edited by Dr. Sunita Borkar, published by Springer.
ISBN :978-3-319-12909-9
ISBN: 978-3-319-12910-5 (e-book)

Name of faculty	h-index	Impact factor	Citation
Dr. Dilecta D'Costa		4.830	
Dr. Sushanta Sapte	2	5.333	25
Ms. Sushama Dessai	2	2.8	6
Ms. Ninoschka Pinto	0	1.213	0

B) Seminars/ Conferences per faculty:

Name of faculty	Years	Conferences attended	Papers presented at conferences
Dr. Dilecta D'Costa	2011-2015	29	09
Ms. Marina Albuquerque	2011-2015	10	01
Dr. Sushanta Sapte	2011-2015	06	05
Ms. Sushama Dessai	2011-2015	02	04

C) Seminars / Workshops/ Talks Organised

Year	Name of seminar/Workshop/Talk organised
2013-2014	1) A seminar and inter-class poster competition on World TB Day

	<p>wherein doctors from Primary Health Centre, Betki, created awareness on TB prevention and control.</p> <p>2) The following inter-class activities were organised and the winners were given prizes. (a) Microchef , Microbazaar, Microspell, Microblast Practical</p>
2014-2015	<p>1) Orientation Programme for F.Y. students.</p> <p>2) Advocacy workshop on Vector Borne Diseases in July 2014, sponsored by Primary Health Centre, Betki.</p>
2015-2016	<p>1) Orientation programme for F.Y. students.</p> <p>2) Organised a talk on “Challenges Faced by Youths especially with regard to Drug Addiction by Dr. Ugam Tari on 12th August 2015.</p> <p>3) “MICRO-Talent” week was organised for B.Sc. Microbiology students</p>

Study tour organised

Year	Study Tour Organised
2012-2013	Organised a study tour for Microbiology students to Mysore from 6th to 10th Nov 2012 and visited Microbiology Department, Biotechnology Department - University of Mysore, Defence Food Research Laboratory and CFTRI - Mysore
2013-2014	Organised a study tour for Microbiology students to Hyderabad from 6th to 13th Nov 2013 and visited research institutions like CCMB, CIMAP, Dr. Ronald Ross hospital for Malaria and Department of Genetics and Genetic Disorders, Osmania University.
2014-2015	Conducted a study tour to Kerala for T.Y.Bsc students from 6th - 12th November 2014 and visited: Central Marine Fisheries Research Institute., National Institute of Ocenography, Kochi. National Centre for Aquatic Animal Health, National Bureau of Fish Genetic Resources, Amrita Institute of Medical Science and Research Centre.
2015-2016	Organised a study tour of students of T.Y.B.Sc. Microbiology to Gujarat and Rajasthan , wherein the following institutes were visited. AMUL-Anand, F.R.I.G.E.- Gujarat, CAZRI - Jodhpur, National Research Centre on Camel - Bikaner, Sam Sand Dunes - Jaisalmer

20. Areas of consultancy and income generated: Nil

21. Faculty as members in:

a. National committees

Human Resource Management for Food Processing Industries in Goa:- Ms. Marina Albuquerque

b. International Committees

**ISOPOL (International Symposium on problems of listeriosis)-
Dr.DilectaD'Costa - Organising member.**

c. Editorial Boards: Nil

22. Students Projects

- a. Percentage of students who have done in-house projects including inter departmental / programme : 100%
- b. Percentage of students placed for projects in organisations outside the institution i.e. in Research laboratories /Industry /other agencies : Nil.

23. Awards /Recognitions received by faculty and Students -

A) Awards /Recognitions received by faculty-

1) **Dr. Dilecta D'Costa won a consolation prize for poster entitled "Incidence of *Listeria* spp. in Feed and Fodder" presented in the Faculty category at "Biocomp 2015" organised by Shivaji University, Kolhapur.**

2) **Dr. Dilecta D'Costa, Best Paper Award, Gold Medal at International Conference on "Ecotoxicology and Environmental Sciences" organised by Institute of Ecotoxicology and Environmental Sciences held at CIFT, Kochi, Kerala from 15th -17th Feb 2016.**

3) **Dr. Sushanta Sapte won Second Prize for poster entitled "Diversity among *Listeria monocytogenes* isolated from animal clinical cases." presented in the Faculty category at "Biocomp 2015" organised by Shivaji University, Kolhapur.**

4) **Ms. Marina Albuquerque, Assoc Prof. of Microbiology secured 4 silver medals and 4 bronzes in the All India Civil Services badminton tournament held over the last 7 years in the womens and mixed doubles tournament.**

5) **Ms. Sushama Dessai won Third Prize for oral paper presentation entitled" Metal tolerance , equilibrium and kinetic studies of copper biosorption by dried biomass of *Haloferax* sp. GUSF1" at a one day state level seminar held at P.E.S college, Farmagudi entitled "Ärchae the third domain of life."**

6) **Ms. Sushama Dessai won First Prize for poster entitled "Role of Haloarchae in remediation of oil pollution" at "The International conference on green chemistry catalysis, energy and environment" organised by Department of Chemistry, Goa University.**

B)Awards /Recognitions received by Students-

1)**S.Y.B.Sc. microbiology students won Second Place at "Synapse 2K14"organized by Department of Biotechnology at Chowgule College.**

2)Chinmay Hazare and Divyata Gaonkar (S.Y.BSc.) won First Place in the model making competition at “Biocomp 2015”organised by ShivajiUniversity , Kolhapur ; for their model depicting working minimodel of Biogas Plant.

3)Chinmay Hazare, Veda Manerikar and Dviti Mapari along with Dr.Dilecta D’Costa won a consolation prize for poster entitled “Archaea as future fuel fabricators” at a one day state level seminar held at P.E.S college, Farmagudi entitled “Ärchae the third domain of life.”

24. List of eminent academicians and scientists / Visitors to the department :

Dr. Nandkumar Kamat, Scientist, Goa University

Dr. Miguel Braganza, Horticulturist.

Dr. A. Parulekar, Member Secretary, Goa State Pollution Control Board.

Dr. Sachin Tendulkar, Sr. Scientist, Department of Science and Technology, Goa.

Dr. Anthony, Sr. Scientist, National Institute of Ocenography.

25. Seminars/Conferences/Workshops organised & the source of funding:Nil

26. Student profile programme / course wise:

Name of the course	Programme	Applications received		Selected	Enrolled
		*M	*F		
2011-2012	F.Y.B.Sc.	5	24		29
	S.Y.B.Sc.	7	26		33
	T.Y.B.Sc.	3	9		12
2012-2013	F.Y.B.Sc.	5	18		23
	S.Y.B.Sc.	5	24		29
	T.Y.B.Sc.	2	5		7
2013-2014	F.Y.B.Sc.	7	32		39
	S.Y.B.Sc.	3	18		21
	T.Y.B.Sc.	2	11		13
2014-2015	F.Y.B.Sc.	5	27		32
	S.Y.B.Sc.	6	29		35
	T.Y.B.Sc.	1	7		8
2015-2016	F.Y.B.Sc.	12	44		56
	S.Y.B.Sc.	5	24		29
	T.Y.B.Sc.	3	14		17

27. Diversity of students

Name of the Course	% of students from the same state	% of student from other states	% of students from other countries
F.Y.B.Sc.	100%	Nil	Nil

S.Y.B.Sc.	100%	Nil	Nil
T.Y.B.Sc.	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil Services, Defence services, etc? **NET - 03.**

29. Student progression

Student progression	Against % enrolled at T.Y.BSc.
UG to PG	50 %
PG to M.Phil.	0 %
PG to Ph.D.	4 %
Ph.D. to Post-Doctoral	3 %
Employed	60 %
Campus selection	2 %
Other than campus recruitment	-
Entrepreneurship / Self- employment	1 %

30. Details of Infrastructural facilities:

- a) Library – Books in the library: **822**
 Research Journal:
Indian Journal of Microbiology, Journal of Genetics, Current Science, Journal of Bio-science, Health, Resonance
- b) Internet Facilities for Staff & Students- **Yes**
- c) Class rooms with ICT facility- **No**
- d) Laboratories –**Yes, Well equipped Laboratory with projector, preparation and washing room, project room.**

31. Number of students receiving financial assistance from college, university, Government or other agencies:

Sr.No.	Year	Scholarship	No.of students
1.	2015-2016	Post Matric Scholarship for ST.	F.Y.BSc- 05 S.Y.BSc- 03 T.Y.BSc- 01
		Merit Based Award.	F.Y.BSc- 03 S.Y.BSc-0 T.Y.BSc-0

		GaganBharariShikshaYojana.	F.Y.BSc- 05 S.Y.BSc- 03 T.Y.BSc- 01
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32. Details on student enrichment programs (special lectures / workshops / seminars) with external

Experts:

- **Dr. Nandkumar Kamat, Scientist, Goa University addressed the students on the topic “Developing a Scientific Temper”**
- **Dr. Miguel Braganza, Horticulturist introduced the students to the world of “Agricultural Microbiology”**
- **Dr. A. Parulekar, Member Secretary, Goa State Pollution Control Board spoke on the “Management of Pollution”**
- **Dr. Sachin Tendulkar, Sr. Scientist, Department of Science and Technology, Goa informed and encouraged the students on “Careers in Science”**
- **Dr. Anthony, Sr. Scientist, National Institute of Oceanography gave a talk to the students on “Instrumentation”**

33. Teaching methods adopted to improve students’ learning:

- **Students are encouraged to prepare charts, models and class assignments.**
- **Teachers use various methods like Power point presentations, Posters and flow sheets, Extempore.**
- **Field trips and study tours to aid in teaching and broadening the students’ horizons to inculcate an interest of the subject in them.**
- **Quizzes, debates and Brain storming sessions are organized.**
- **Extracurricular, but subject related, inter class events are organized like Microbial fermented cuisine, Agar Art and Microtoons (microbiology cartoons).**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The T.Y.BSc students of Microbiology undertake a project as a requirement to complete the sixth semester. The projects were chosen with a view to apply their expertise and to help the population of the neighbouring villages of Cumbharjua and St. Estevam.

1. Study of the microbial flora in local horticultural food products.
2. Production of Citric acid by using vegetable and fruit waste from Banastarim and Sankhali markets.
3. Comparative studies of bacterial flora along the Mandovi River.
4. Microbiology Assessment of well water of three villages: Cumbharjua, Marcela and St. Estevam.
5. Studies on interaction between *Phaseolus vulgaris*(Kidney beans) and *Rhizobium* spp.
6. A blood grouping camp was organised for the students of the college.

7. The Importance of Immunisation Schedule.
8. A talk on "Hygiene and Good Health Practices" was organised for the residents of Marcel.

35. SWOC analysis of the department and future plans:

a) Strength:

Ever increasing student strength.
Students and teacher's share a good rapport.
Students confide in teachers, ask for guidance and advice, thus creating a congenial atmosphere for learning. Well qualified teaching faculty.

b) Weakness:

Lack of sophisticated instruments such as microscopes with camera attachment, PCR machine, UV visualize for viewing gels.
Students are willing to learn however some students come from weak backgrounds and are first generation learners, they are not very proficient in expressing themselves.

c) Opportunities:

The faculty is well qualified with experience in research and thus minor research projects can be undertaken.

d) Challenges

To reach the weaker students and motivate them to excel in examinations.

Future:

To promote good research work from teachers and students.
Invite personalities from various fields to address the students.
Organise state level workshops/schemes on relevant topics.

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF CHEMISTRY

1. Name of the department: **Chemistry**
2. Year of Establishment: **1991**
3. Names of Programs/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):
UG: B.Sc. Chemistry (six units)
4. Names of Interdisciplinary courses and the departments/units involved:
Short term Certificate course in Water Analysis in collaboration with Goa Pollution Control Board and Microbiology Department is proposed in the month of November.
5. Annual/ semester/choice based credit system (program wise) :
UG: B.Sc. Chemistry : Semester
PG: MSc. Inorganic Chemistry : Semester
6. Participation of the department in the courses offered by other departments: **Nil**
7. Courses in collaboration with other universities, Industries, foreign institutions, etc.: **Nil**
8. Details of courses/programs discontinued (if any) with reasons : **Nil**
9. Number of Teaching posts:

	Sanctioned	Nature	Filled
Associate Professors	02	Confirmed	02
Assistant Professors	04	1Regular 3 temporary	04

10. Faculty profile:

Name	Qualification	Designation	Specialization	Years of Experience	No of Ph D students guided for last 4 years
Dr. Jivexa Bhattacharjee	M. Sc., Ph. D.	Associate Professor	Organic Chemistry	24	-
Dr. Beena Vernekar	M. Sc., Ph. D., SET	Associate Professor	Inorganic Chemistry	22	-

Dr. Rajashri Mordekar	M. Sc., Ph. D., SET	Assistant Professor	Physical Chemistry	12	-
Mr. Jeffrey Viegas	M. Sc., NET	Assistant Professor	Organic Chemistry	1 (2015-16)	-
Ms.Sneha Parab	M. Sc.	Assistant Professor	Physical Chemistry	-	-
Ms.Sujata Kerkar	M. Sc.	Assistant Professor	Physical Chemistry	1 (2015-16)	-

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty:
UG: B.Sc. Chemistry

Year	% Lectures	% Practical classes
2012 - 2013	NA	43
2013 - 2014	18	60
2014 - 2015	20	58
2015 - 2016	21	58
2016 - 2017	21	47

13. Student -Teacher Ratio (programme wise)
UG: B.Sc. Chemistry

Academic Year	Student-Teacher Ratio
2012 - 2013	17:1
2013 - 2014	20:1
2014 - 2015	21:1
2015 - 2016	20:1
2016 - 2017	22:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Support Staff	Sanctioned	Filled
Laboratory Assistant	01	01
Laboratory Attendants	02	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification
Dr.Jivexa Bhattacharjee	M. Sc., Ph. D.
Dr.Beena Vernekar	M. Sc., Ph. D.

Dr.Rajashri Mordekar	M. Sc., Ph. D.
Mr. Jeffrey Viegas	M. Sc.
Ms. Sneha Parab	M. Sc.
Ms. Sujata Kerkar	M. Sc.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Research Project	Funding Agency	Grant received	Year of sanction
Minor research project	UGC, WRO Pune	Rs 2,00,000/-	

Dr. Shridhar Gurav duly completed the above project in 2011-12, and then was transferred to Government. College, Quepem.

18. Research Centre /facility recognized by the University : **Planned to be set up by 2018.**
19. Publications:
- Publication per faculty: Dr Rajashri Mordekar- Three
 - Rajashri Karmali, Vrinda Borker, K.S. Rane & C. G. Naik, "Value addition to the low grade iron ore rejects", Journal of Solid waste Technology and management Vol.38(4) November, 2012, ISSN: 1088-1697 .**
 - Vrinda Borker, Rajashri Karmali, Koyar Rane, "Comparison of degradation of methylene blue by N doped ZnO and iron ore rejects", The 28th International Conference on Solid Waste Technology and Management, Philadelphia, PA U.S.A., March 10-13, 2013, ISSN 1091-8043.**
 - Vrinda Borker, Rajashri Karmali and Koyar Rane, "Comparison of degradation of methylene blue dye by ZnO, N doped ZnO and iron ore rejects", European Chemical Bulletin, 2014, section B, 3(6), 520-529, ISSN 2063-5346.**

* Number of papers published in peer reviewed journals (national/international) by faculty and students: **Three**

* SJR:Journal of Solid waste Technology and management - **0.16**

* Impact factor

Journal of Solid waste Technology and management -**0.891**

European Chemical Bulletin-**3.578**

* h - Index: **5 and 10 respectively.**

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards.

Name of the faculty	National Committee
Dr. Jivexa Bhattacharjee	Association of Chemistry Teachers, Indian Council of Chemists.
Dr. Beena Vernekar	Association of Chemistry Teachers, Indian Academy of Sciences.
Dr. Rajashri Mordekar	Association of Chemistry Teachers

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme :**100%**

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies
T.Y.B.Sc. students use analytical instruments facilities of Goa University at USIC, NCAOR, NIO etc.

23. Awards / Recognitions received by faculty and students:

Dr. Rajashri Mordekar

1. Paper entitled "**Pyrochlore Oxides for disposal of Nuclear Wastes**" presented by Dr. Rajashri Mordekar was awarded Second Place for Best Oral Presentation at UGC sponsored National Conference on Physics and Chemistry of advanced Materials held at C. B. Khedgi's Basaveshwar Science college, Raja Vijaysinh Commerce and Raja Jaysinh Arts College Akkalkot -Solapur on 18-19 December 2013.

Dr. Beena Vernekar

1. Awarded Fellowship by UGC Networking Resource Centre Hyderabad to work under project "**Influence of external stimuli on the structural diversity of mefenamates interacting with nitrogen donor ligands**" at school of Chemistry Hyderabad University Hyderabad from 14th September 2013 to 14th May 2014 and successfully completed on 14th May 2014.

2. Awarded Fellowship of Indian Academy of Sciences and completed summer research project on "**Graphene Oxide and its interaction with Super Fullerenes**" under the guidance of Prof. S. Sarkar, Indian Institute of Science and Engineering, Shibpur, West Bengal from 19th May 2014 to 19th July 2014.

Students

Name of the student	Award	Occasion	Guided By
Ms. Utkarsha Mardolkar	Third place for poster 'Photocalalytic Degradation of AZO dyes photo-Fenton Reagent in aqueous medium "	6th Annual Inter - collegiate Symposium, Department of Chemistry on March 17, 2012 at Goa University	Dr. Jivexa Bhattacharjee
Ms. Stacy Rocha	Second place for oral presentation "Nanomaterials derived from Ferrites"	7th Annual inter collegiate symposium, Department of Chemistry held on 9 th March 2013	Dr. Beena Vernekar
Ms. Pratika Raikar	Second place for Poster "Hazardous HoliColours"	8th Annual Inter collegiate Chemistry Symposium, Department of Chemistry on March 15, 2014	Dr Rajashri Mordekar.
Ms. Krutika Naik and Ms. Pooja Bandari	First place in the Intercollegiate B.Sc. Chemistry quiz	A.C.T.Quiz on 27th January 2016 at Carmel college, Nuvem.	All Teachers
Mr. Schubert Fernandes	First place for Oral presentation	Intercollegiate chemistry event KYNESIS on 20 th February 2016 by Parvatibai Chowgule college of Arts and Science.	All Teachers
Mr. Dixit phadte and Mr. Charant Naik	First place for poster making ("Chemistry - yesterday, today, tomorrow")	Intercollegiate chemistry event KYNESIS on 20 th February 2016 by Parvatibai Chowgule college of Arts and Science.	All Teachers

Ms. Stacy Remedios and Mr. Schubert Fernandes	First place for Action Reaction	Intercollegiate chemistry event KYNESIS on 20 th February 2016 by Parvatibai Chowgule college of Arts and Science.	All Teachers
Ms. Sanam Vaingankar and Ms. Madhuri Naik	First place in the poster competition on "Green Chemistry"	Annual convention of Chemistry Teachers on 24 th February 2016 at Govt. College, Sanquelim, Goa	All Teachers

24. List of eminent academicians and scientists / visitors to the department:

Eminent academician/ Scientist / Visitor	Designation
Dr. Kamlesh Fondekar	Head of Technology and Engineering, Syngenta India.
Ms. Deepa Somanathan	Scientist, Syngenta India
Dr. Parang Sawant	Goa Medical College, Bambolim
Mr. Nitin Raikar	Deputy Director, Directorate of Fire and Emergency Services.
Dr. R. N. Shirsat	Associate Professor in Physical Chemistry, Goa University.
Dr. B. R. Srinivasan	Professor in Inorganic Chemistry, Goa University.
Dr. Bhaskar G. Naik	Director, Directorate of Higher Education.
Mr. Manoj Dessai	Manager, Borosil

25. Seminars/Conferences/Workshops organized & the source of funding:

- a) National
- b) International
- c) State Level

1. **Science day celebrations** were held in college on **27th February 2016** for school and higher secondary students. Talks were delivered by **Dr. Sushanta Sapte on "Impact of Science on society"** and **F. Y. B.Sc. student Schubert Fernandes on Nanotechnology.** The F.Y. and S.Y.B.Sc. Students conducted demonstrative experiments and presented posters which were appreciated by the guest student community.
2. A state-level Workshop on **"Safety in Laboratory"** was organized on **30th April 2016** in collaboration with Syngenta India. The aim of the

workshop was to educate teachers, laboratory staff and students on safety procedures to be followed while working in laboratories. The speakers were **Dr. Kamlesh Fondekar, Head of Technology and Engineering, Syngenta India, Ms Deepa Somanathan, Scientist, Syngenta India, Dr. Parang Sawant, Goa Medical College, Bambolim, Mr. Nitin Raikar, Deputy Director, Directorate of Fire and Emergency Services.**

26. Student profile programme/course wise:

Academic Year	course	Applications received	Seats sanctioned	Seats filled	Enrolled		Pass percentage	
					M	F	Odd SEM	Even SEM
2011-12	T.Y.B.Sc.	13	20	13	--	13	100	100
	S.Y.B.Sc.	33	33	33	07	26	97	97
	F.Y.B.Sc.	29	29	29	05	24	93	93
2012-13	T.Y.B.Sc.	25	25	25	03	22	96	96
	S.Y.B.Sc.	29	29	29	05	24	100	93
	F.Y.B.Sc.	31	31	31	06	25	84	81
2013 -14	T.Y.B.Sc.	16	20	16	04	12	100	100
	S.Y.B.Sc.	26	26	26	04	22	100	100
	F.Y.B.Sc.	36	36	36	06	30	97	100
2014 -15	T.Y.B.Sc.	16	20	16	02	14	100	100
	S.Y.B.Sc.	35	35	35	06	29	80	89
	F.Y.B.Sc.	33	33	33	05	28	76	88
2015-16	T.Y.B.Sc.	07	20	07	02	05	100	100
	S.Y.B.Sc.	31	31	31	05	26	100	100
	F.Y.B.Sc.	59	59	59	16	43	88	86

27. Diversity of Students

Name of the course	% of the students from the same state	% of students from other state	% of students from abroad
2012-13	96.8	3.2	Nil
2013-14	100	Nil	Nil
2014-15	100	Nil	Nil
2015-16	94.8	3.5	1.7

2016-17	98.2	Nil	1.7
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28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? **11**

29. Student progression

Student Progression	Against % enrolled
UG to PG	
2011-12	61.5%
2012-13	72%
2013-14	68.7%
2014-15	37.5%
2015-16	43%
PG to M.Phil	--
PG to Ph.D.	--
Ph.D. to Post- Doctoral	--
Employed	
Campus selection	
2011-12	08%
2012-13	--
2013-14	--
2014-15	12.5%
Other than campus recruitment	
2011-12	--
2012-13	12%
2013-14	19%
2014-15	12.5%
2015-16	14%
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities

a) Library:

1062 books in Chemistry (Organic/Inorganic/Physical/Analytical)

No of journals subscribed in chemistry: 3

No of Multidisciplinary journals: 4

b) Internet facilities for Staff & Students :

Wired and wireless Internet

c) Class rooms with ICT facility LCD, OHPs: **Yes**

d) Laboratories :

01 Inorganic/Organic Laboratory, 01 Physical/Analytical Laboratory, 01 proposed Research Laboratory, 01 proposed Post graduate Laboratory

NOC granted for revamping of present laboratory and preparation of new laboratory for PG course in Chemistry.

31. Number of students receiving financial assistance from college, university, government or other agencies

Academic year	No of students availing Post Matric		
	OBC Scholarship	ST Scholarship	Merit based Scholarship
2015-16	12	10	03

32. Details on student enrichment programmes (special lectures/workshops /seminar) with external experts:

- 1) **Special coaching classes** were conducted for T .Y .B.Sc. students in **March 2011 for M.Sc.** entrance test of Goa University and Pune University.
- 2) Department of Chemistry organized visit of B. Sc. students to 4th **Bharatiya Vigyan Sammelan and Expo 2015** at Kala Academy, Panaji-Goa on 7th February 2015 wherein students could interact with various agricultural scientists, DRDO and BARC scientists and observe applications of scientific knowledge in various innovative projects.
- 3) Students attended sensitization lecture titled *"From Matter to Life: Chemistry? Chemistry!"* by **Nobel Laureate: Prof. Jean - Marie Lehn**; organized by Goa University on 20th February 2015.
- 4) A talk of **Dr. Kamlesh Fondekar**, Head of Technology and Engineering Syngenta India, was organised by Chemistry Department and Science club on 12th February 2016. The topic of Lecture was **"Challenges and Opportunities in Chemical Industry"**
- 5) Students of F. Y. B. Sc. visited Science Fiesta on 29th February, 2016, organized by Science centre for the **Sir C. V. Raman memorial talk** by **Dr Kaustubh priolkar**, Associate professor in Physics on "Raman Spectroscopy and its applications" followed by demonstrations and planetarium show. The visit was extended to National Science laboratory NIO, Dona Paula and Goa University.

- 6) Under Club "**Spektrum**" various competitions were organised for students like quiz, poster, oral presentation and others like cooking without fire, flower arrangement, extempore, demonstration reaction, to understand nature and surroundings with regard to chemistry.
33. Teaching methods adopted to improve student learning
- Collaborative learning
- T.Y.B.Sc. students work on research based projects as a part of curriculum wherein a part of the analysis of their samples is done in **National Laboratories** like NIO- Dona Paula, NCAOR- Vasco, Goa University - Taleigao Plateau. They get an opportunity to understand the working of the instruments and data collection.
- Interactive learning
- Students of T. Y. B.Sc. every year participate in the quiz conducted by Association of Chemistry Teachers Goa, **poster and oral presentation competition on T.Y.B.Sc. project organized by Goa University** and bring laurels to the department.
 - Chemistry Department of the College represented the college for event "**Kynesis**" organized by Chowgule College and won a trophy.
- Independent learning
- **Independent assignments** are given to students on different topics as second **Intra Semester Assessment (ISA)**. Daily assignments are cumulatively considered for grading for the internal exams.
 - The Chemistry Department instituted the Chemistry Club for students. Under the club various activities like **quiz, Nutrichem, florichem, action reaction, poster competition, Ex-Tempore** are conducted to inculcate scientific temper, creativity in them.
 - Learning through **internet, videos, demonstrative experiments** for understanding concepts in classroom teaching are encouraged.
 - E-learning in groups through **watsapp and face book**. Competitions on **chart making, Poster making and demonstration of simple chemical reactions**.
 - Trips are made to **research centres** like NIO, NCAOR, Goa University and educational institutes like Science Centre.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Extension activities**
- **Dr. Jivexa Bhattacharjee** offered services as subject expert in organic chemistry for interview panel for Assistant Professor for government colleges centralized at **Directorate of Higher Education (2011- 2014)**.

- **Dr. Beena Vernekar** offered services as subject expert in Inorganic Chemistry for interview panel for Assistant Professor in
 - 1) PES college in June 2013,
 - 2) Chowgule College Margao, in November 2013.
 - 3) Ganpat Parsekar College of Education, in February 2016.
- The faculty of Chemistry Department are appointed as **internal and external examiners for the T.Y.B.Sc. theory and practical examinations** held by Goa University and worked as BOS members from time to time.

Institutional Social Responsibility

- **Gandhi Jayanti Cleanliness drive-** Cleaning the campus by students every year.
- **Science day celebrations** were held in College on 27th February 2016 for school and higher secondary students. The students conducted demonstrative experiments followed by interactive session of poster.
- The Department of Chemistry organized a state level Workshop on **"Safety in Laboratory"** on 30th April 2016, with an aim of educating teachers, laboratory staff and students from schools around Goa on safety procedures to be followed while working in laboratories.
 - ❖ The speaker Dr. Kamlesh Fondekar made a general awareness on safety in the working environment.
 - ❖ Dr. Parang Sawant, briefed the people about first aid in laboratory as well as emergencies taking place in day-to-day life.
 - ❖ Mr. Nitin Raikar, conducted the mock drill and demonstrated use of different fire extinguishers in case of emergencies.

35. SWOC analysis of the department and Future plans

a) Strengths

- 100% results at the university examinations and 100% employability of students.
- Well Trained, research oriented, experienced and energetic faculty.
- Well equipped Laboratories.
- Very good interface with Industries, Research and Educational Institutes.
- Student enrichment through club "Spektrum" which has led to winning of accolades to the Department the same being reflected in local dailies.
- Commendable bonding between the students and the teachers.
- Well equipped library with books as per syllabus and required for competitive examinations.
- Strong Alumni -Teacher bonding

b) Weakness

- Non-recruitment of teaching and non teaching staff.
- Pausity of funds.
- Delay in procurement of sophisticated instruments for research.
- No research laboratory due to scarcity of space.

c) Opportunities

- To make industry Institution Interface more strong which will facilitate good exchange of academics and technological aspects between the two.
- To tap the potential of students by organizing various competitions, seminars, workshops for their holistic development .
- To inculcate scientific temper and affinity for natural sciences among the school and higher secondary school students by conducting various events to channelize the young talent.
- To organize awareness programs for the betterment of the community.
- To work hard to startup research centre affiliated to Goa University so that students can pursue their Ph. D.

d) Challenges

- To produce graduates on par with/ better than the city colleges.
- To attract the students for pure sciences.
- Absence of fulltime teaching and non teaching staff.
- To mould the first generation learners from rural areas to highly competent professionals.
- Reach the weakest student and to motivate him/her to reach above the average level and excel in examinations and in life.

Future Plans

- To expand the department and introduce Post graduate programme in Chemistry where the fees will be less than the self financed courses conducted in aided colleges.
- To enhance the soft skills and employability of students by conducting job-oriented add-on, short term Certificate/Diploma courses.
- To undertake major and minor research projects from various funding agencies.
- To increase the number of publications in better impact factor journals.
- To invite eminent scientists and academicians to the department to motivate the students.
- To organize national, international workshops and seminars.
- To strengthen the collaboration and MOUs with industries and research institutions.
- To train the staff and students on environmental issues.

- To organize summer training programs for our students in Research Institutes and Industries.
- To organize intra and inter collegiate events for students under the club "Spektrum".
- To participate in institutional social responsibility and extension activities for the benefit of the community.

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF PHYSICS

1. Name of the department :**Physics**
2. Year of Establishment: **1990**
3. Names of Programs / Courses offered: **UG: B.Sc.**
4. Names of Interdisciplinary courses and the departments/units involved:
Nil
5. Annual/ semester/choice based credit system (programme wise):
UG: B.Sc.-Semester
6. Participation of the department in the courses offered by other departments: Programme- **Bachelor of Optometry**, Goa Medical College, Bambolim, Goa.
Courses- **1.Physical optics**
 2.Geometrical optics
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:**Nil**
8. Details of courses/programs discontinued (if any) with reasons: **Nil**
9. Number of Teaching posts

	Sanctioned	Filled
Associate professors	02	02
Assistant Professors	02(Lecture basis)	02(Lecture basis)

10. Faculty profile

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Jaison Joseph	M.Sc. Ph.D	Associate Professor	Material Science	25	0
Mr. P. V.	M.Sc.	Associate	Electronics	25	0

Chodankar		Professor			
Miss. Savita Shantaram Rane	M.Sc.	Assistant professor	General	1	0
Miss. Samiksha Malik	M.Sc.	Assistant professor	General	1	0

11. List of senior visiting faculty: **Nil**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **47%**
13. Student -Teacher Ratio (programmewise): **B.Sc. - 37:1**
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Support Staff	Sanctioned	Filled
Laboratory Assistant	01	nil
Laboratory Attendant	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Sr.No	Name	Qualification
1	Mr. Jaison Joseph	M.Sc, Ph.D
2	Mr. P.V. Chodankar	M.Sc.
3	Miss.Savita Shantaram Rane	M.Sc.
4	Miss.Samiksha Malik	M.Sc.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 01 National

Project (National)	Title.	Funding Agency	Grants Received
Surface and bulk studies of nano-		UGC-DAE-CSR	Rs.2,29,800

particle spinel ferrite thin films.		
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17. Departmental projects funded by DST- FIST; UGC, DBT, ICSSR, etc. and total grants received:

Project Title.	Funding Agency	Grants Received	Month and Year of receipt of grant
Surface and bulk studies of nano-particle spinel ferrite thin films	UGC-DAE-CSR	Rs.2,29,800	September 2015

18. Research Centre /facility recognized by the University : Nil

19. Publications:

- a) Publication per faculty: Dr.Jaison Joseph-8
b)Number of papers published in peer reviewed journals (national / international) by faculty and students: 8

Dr.Jaison Joseph.

1. *Jaison Joseph , R.B. Tangsali et al*, Microstructure and Magnetic Properties of Nano Crystalline Manganese Ferrite Thin Film Fabricated by Pulse Laser Deposition. **Advanced Science Letters. [Adv. Sci. Lett. 22, 825-829 (2016)] (Research Gate Current impact factor: 1.25)**
2. *Jaison Joseph , R.B. Tangsali et al*, Microstructure and magnetic properties of patterned nano crystalline zinc ferrite thin film fabricated by pulse laser deposition. **Materials Research Bulletin 61 (2014) 475-480**
3. *Jaison Joseph , R.B. Tangsali et al*, Structure and magnetic properties of highly textured nanocrystalline Mn-Zn ferrite thin film. *Jaison Joseph , R.B.Tangsali et al*, **Physicalsicalica B 456 (2015) 293-297**
4. *Jaison Joseph , R.B. Tangsali et al*, Magnetic Properties of Textured Nanocrystalline Mn-Zn Ferrite Thin Films Fabricated by Pulsed Laser Deposition. **International Journal of Thin Film Science and Technology [Int. J. Thin Fil. Sci. Tec. 3, No. 3, (2014) 81-87]**
5. *Jaison Joseph , R.B. Tangsali et al*, Synthesis, characterization and Transport properties of $\text{Co}_x\text{Zn}_{1-x}\text{Fe}_2\text{O}_4$ Nanoparticles. **IOP Conf. Series: Materials Science and Engineering73 (2015) 012098**

6. M. M. Kothawale, R. B. Tangsali, *Jaison Joseph et al*, Characterization and Mössbauer Study of $\text{Ni}_{0.45}\text{Zn}_{0.55}\text{Fe}_2\text{O}_4$ Nanoparticles Prepared by Novel Precursor Method **AIP.Conf.Proc.1349,1165-1166(2011)**

Papers published at National Level.

1. *Jaison Joseph & R.B.Tangsali*, Nanoparticle Spinel Ferrite Thin Films-Deposition and Characterisation. Paper presented at National Conference MAPC & PAMC 2010, held at S. H. K.College, Devgad, Maharashtra during 16-17 January 2010 and Published in a book.

Papers communicated.

1. Resistivity-Thermo power Co-relation Derived Temperature Dependent Transport Behaviour of $\text{Mn}_x\text{Zn}_{1-x}\text{Fe}_2\text{O}_4$ Nanoparticles. *Jaison Joseph, R. B. Tangsali, S. M. Gurav* **Journal of Taibah University for Science (Elsevier)**

Papers presented at International conferences : 07, National Conferences :04

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 5

- * Monographs: Nil
- * Chapter in Books: 1

Authored a chapter in the book Mathematical Aspects of Physical concepts and Physical Aspects of Mathematical Concepts by Tilak Wasan, Discovery Publishing House PVT. LTD, New Delhi.

* Books with ISBN/ISSN numbers with details of publishers: 1

ISBN: 978-81-8356-798-5

Publisher:Discovery publishing house Pvt. LTD 4831/24, Ansari Road, Darya Ganj, New Delhi-110002.

* Impact factor

Materials Research Bulletin : Impact Factor:2.36

Physicalsicalica B: Impact Factor:1.24

Int. J. Thin Fil. Sci. Tec. : Google-based ImpactFactor: 0.938

Advanced Science Letters.: Research Gate Current impact factor: 1.25

20. Areas of consultancy and income generated:
Free consultancy services provided to **M/s Adec Embedded**

Technology and Solutions Pvt Ltd. Corlim, Goa.

21. Faculty as members in
- a) National Committees b) International Committees c) Editorial Boards. **Dr.Jaison Joseph**
 1. Research paper reviewer for International journal “**Materials Science and Engineering B**” (Elsevier)
 2. Treasurer - Indian association of physics teachers (**IAPT**) Goa Regional Council.
 3. Life Member- Indian Science Congress Association.
21. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme :
100% students enrolled for in-house projects at S.Y.B.Sc. level
 - b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:
Nil
22. Awards / Recognitions received by faculty and students:
Dr. Jaison Joseph was awarded Indian Academy of Sciences Teacher Fellowship in 2010.
23. List of eminent academicians and scientists/ visitors to the department : **Nil**
25. Seminars/Conferences/Workshops organized & the source of funding:
Nil
26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled	
			*M	*F
F.Y.B.Sc.	150	110	36	74

27. Diversity of Students

Name of the Course	% of students from the same	% of students from other states	% of students from abroad
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	state		
B.Sc	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **Nil**
29. Student progression : No specialization in physics at T Y level

Student progression	Against % enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	NA

30. Details of Infrastructural facilities

a) Library:

No separate departmental library, utilizes the library facility of the college. **Number of Physics books in library- 297**

b) Internet facilities for Staff & Students.

Available on **6 Computers wired to 1 Printer & 1 Scanner.**

c) Class rooms with ICT facility: **Available**

a) Laboratories: **One laboratory. Of 200 sq. mt.Laboratory space**

1) **Infrastructure:-**

Well equipped spacious Laboratory

Dark room for Optics experiments.

6 Computers,1 Printer &1 Scanner.

3KVA Inverter for power back up

LCD Projector and screen for presentations

2) **Instruments:-**

- **AC Susceptibility Measurement System (research level Instrument)**
- **Function Generators**
- **Digital CRO**
- **Spectrometers.**
- **Michelson's Interferometer**
- **Polarimeters**
- **Photometers**

- **He-Neon laser experimental setup**
- **expEYES:- Basic learning kit**
- **Fire Bird V :- Robotic Research Platform**

3) Software:-

- **Origin. Graphics software.**
- **D.O.S.E. Data logger Of Science Experiments**

31. Number of students receiving financial assistance from college, university, government or other agencies: --
32. Details on student enrichment programs (special lectures / workshops / seminar) with external experts
Talk on "**Nano Magnetism**" by **Mr. Pranav Naik**, Research scholar in Department of Physics, Goa University on 21-3-2016.
33. Teaching methods adopted to improve student learning:
Devised computer aided teaching and learning techniques.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities.
1. The department conducts **theory classes and Practical sessions** for **First year Bachelor of Optometry of Allied Sciences of Goa Medical College Bambolim.**
 2. The department Sets up **practical Laboratory for Physical& Geometrical optics for First year Bachelor of Optometry.**
 3. **Electronics projects for S.Y.B.Sc. Students.**
 4. An **Automated bell** has been designed for the college.
 5. Infrastructural facility for **Robotic experiments.**
 6. Developed the **Software** for managing the students **Attendance.**
 7. **Installed Broadband net connectivity in Science block**
 8. **Wi-fi facility** extended in library hall for UGC Resource Centre.
35. SWOC analysis of the department and Future plans
- a) **Strength**
 - Excellent faculty
 - Good infrastructure
 - Appropriate funding
 - b) **Weakness**
 - Students from weak socio-economic back ground with inadequate

base knowledge

c) Opportunities

Introduction of new interdisciplinary graduation courses and up gradation to M.Sc. and research levels

d) Challenges

Time delay in administrative procedures

Temporary filling of administrative and teaching positions

Substitutions in long leave vacancies

Sudden transfer of teaching and non teaching staff especially during the middle of academic calendar.

Future plans

Purchase, installation and Development of research level scientific Instruments using RUSA funds

Introduction of a post graduate diploma course in **Non Destructive testing of Materials**

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF COMPUTER SCIENCE

1. Name of the department : **Computer Science**
2. Year of Establishment : **June 1991**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 - a) **BSc in Computer Science**
 - b) Courses offered
 - i. **Information Technology offered to B.A., BSc, BCom**
 - ii. **Cyber Security offered to B.A., BSc, BCom.**
 - iii. **Information system and IT entrepreneurship**
4. Names of Interdisciplinary courses and the departments/units involved.
 - i. **Information Technology offered to B.A., BSc, BCom**
 - ii. **Cyber Security offered to B.A. , BSc, BCom**
5. Annual/ semester/choice based credit system (programme wise):
BSc in Computer Science: **Semester system**
6. Participation of the department in the courses offered by other departments:
Information Technology and Cyber Security courses are taught by the Faculty of our department to the Commerce, Arts and other Science discipline.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:**Spoken Tutorial in collaboration with IIT, Mumbai**
8. Details of courses/programmes discontinued (if any) with reasons:
Nil.
9. Number of Teaching posts

	Sanctioned	Filled
Associate Professors	2	2
Assistant Professors	3	2

10. Faculty profile

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students guided for the last 4 Years
Ms. Sujata Gaonkar	M.C.A.	Associate Professor.	Computers	24 years	---
Ms. Anita Raicar	M.Sc	Associate Professor	Electronics	20 years	---
Ms. Ana Gracy Fernandes	B.E.	Assistant Professor	Computers	20 years	---
Ms. Bharati Pathak	B.E.	Assistant Professor.	Computers	14 years	---

11. List of senior visiting faculty

Name	Designation
Prof. Dr. V. V. Kamat	Professor
Prof. Dr. P.R. Rao	Professor
Mr. Ramrao Wagh	Associate Professor
Mr. Paresh Bene	Business Development Manager

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

	Class	% of Lectures	% of Practicals
BSc	FYBSc(Comp. Sc.)	20%	20%
	SYBSc(Comp. Sc.)	20%	20%
	TYBSc(Comp. Sc.)	40%	40%
	FYBSc(I.T)	90%	All
BA	FYBA(I.T)	100%	All
BCom	FYBCom(I.T)	90%	All

13. Student- Teacher Ratio (programme wise)

Class	Ratio					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
FYBSc (Comp.Sc.)	8:1	6:1	10:1	6:1	2:1	9:1
SYBSc (Comp.Sc.)	9:1	7:1	6:1	7:1	5:1	2:1
TYBSc (Comp.Sc.)	4:1	5:1	4:1	3:1	3:1	2:1
FYBCom(I.T.)	54:1	44:1	68:1	59:1	35:1	48:1
FYBA(I.T.)	59:1	65:1	35:1	35:1	58:1	41:1
FYBSc(I.T.)	34:1	29:1	31:1	39:1	34:1	63:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Staff	2010-14		2014-16	
	Sanctioned	Filled	Sanctioned	Filled
Technical	1	1	1	1
Administrative	1	1	1	0

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

Name	Qualification
Ms. Sujata Gaonkar	M.C.A.
Ms. Anita Raicar	M.Sc
Ms. Ana Gracy Fernandes	B.E.
Ms. Bharati Pathak	B.E.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre /facility recognized by the University: Nil

19. Publications: Nil

20. Areas of consultancy and income generated

Programmes such as web Development in Asp.Net, PHP, MySQL are conducted. Though there is no formal consultancy policy for the college we have offered training programmes in web development. Faculty member conducted a Certificate Course in Web development in ASP.NET and C#

with SQL Server for the 24 students of the department and generated an income of Rs. 31,200/-. The Course of 3 months duration from 11th Jan 2012.

21. Faculty as members in :

a) National committees b) International Committees c) Editorial Boards....

Members of 1)Oracle Academic initiative 2) IBM academic initiative.

3)CSI-Goa Chapter

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental/programme: 100%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

The students visit industries such as Sesa Goa, Progen, Sai Service, Kadamba Transport Corporation.

23. Awards / Recognitions received by faculty and students

Faculty Recognition/Awards

2012-13

Ms. Sujata Gaonkar and students- Mr Godric Mattos and Vibhav Kuncolinkar were awarded the First place for developing a game in ALICE software by ORACLE India Ltd. - 9th Sept. 2013.

2013-14

Ms Ana Gracy Fernandes and Ms Sujata Gaonkar , won the First Place for a Case Study on "Common Services Centre" for a University Level Workshop to build awareness on e-Governance and National e-Governance Plan (NeGP) on 15th March 2013.

Students Recognition/Awards

Year	Event	Venue
2009-10	First place at All Goa InterCollegiate IT Quiz for Delta - CSI Goa Trophy	Govt. College, Sanquelim.
2010-11	1)'IT-RIX' an intercollegiate I.T. Festival 2) 'INFOFEST 2011" 3)Won prizes at 'TORQUE'	1) Chowgule College, Margao 2)Dept. of Computer Science and Technology, Goa University 3)MESA at Goa Engg. College and Goa College of Engg. Farmagudi for ROBO Control.
2011-12	1)First place 'SPECTRA 1.0' 2) First Place in Code Trek event	1)Damodar College, Margao.

2013-14	1)First place at ANDROBOOKS . The winners were selected for an Advanced Training at IIT, Hyderabad. 2) won Second place at I.T. event "NEOSIS '13"	1)P.G. Dept of Don Bosco College, Panaji 2)Inter-Collegiate National Level Technology Festival
2014-15	1)Won prizes at NEOSIS 2)3 rd place in an essay competition for National Science Day 3) 'COLOSSUS'	1)National Level Technology Festival 2) State Council of Education Research & Training, Goa in collaboration with Dept. of Science and Technology and Environment, Govt. of Goa.
2015-16	1)won First and Second place at State Level IT event 2) Silver and bronze medal for State/Zonal Level Sports Event	

24. List of eminent academicians and scientists / visitors to the department

Name of Resource Person	Designation or association	Topic Delivered	Date and Year
Mr. Pranav Pai Vernekar	CEO, Inventron Pvt. Ltd.	How Robot Works and how to Program	27th August 2013
Mrs. C. Latha	Manager, Canara bank,	Cyber Security	7th March 2013
Mr. Saurabh Singh	Oracle Academy	Internet of Things	16th January 2015,
Ms. Asheema Wattal	Oracle Academy	Analytics	21st January 2015
Mr. Ashish Sharma	Senior Manager, Information Security (Oracle Academy)	Information Security(Online series of Lectures)	17th March 2015
Mr. Samir Shaik	Technical Delivery Manager	Design Patterns and software Testing	19th March 2015
Ms. Manognya Reddy	Oracle Campus Recruitment team, Oracle Academy	Girls in ICT Day Celebration (Virtual Seminar)	23rd April 2015
Adv. Asha Desai	Lawyer	Cyber Crime	14th March 2015
Mr. Paresh	Business	Hardware	8th February

Bene	Development Manager	Maintenance and Troubleshooting and Cloud Technology	2016
Mr. Sagun Salgoankar	Founder and Director, TechnoWings	Cyber Security and Ethical Hacking	11th March 2016

25. Seminars/ Conferences/Workshops organized & the source of funding : Nil

26. Student profile programme/course wise:

Year	Name of the Course / programme	Applications received	Selected	Enrolled		Pass Percentage
				*M	*F	
2010-11	FYBSc(Comp. Sc)	22	17*	05	12	95%
	SYBSc(Comp. Sc)	19	19	10	09	100%
	TYBSc(Comp. Sc)	18	18	09	09	100%
	FYBCom(I.T.)	108	108	37	70	90%
	FYBA(I.T.)	59	59	09	50	90%
	FYBSc(I.T.)	34	34	06	38	100%
2011-12	FYBSc(Comp. Sc)	22	12*	08	04	95%
	SYBSc(Comp. Sc)	17	13#	04	09	100%
	TYBSc(Comp. Sc)	19	19	10	09	100%
	FYBCom(I.T.)	132	132	58	74	90%
	FYBA(I.T.)	65	65	12	53	90%
	FYBSc(I.T.)	29	29	05	24	100%
2012-13	FYBSc(Comp. Sc)	21	20*	12	08	85%
	SYBSc(Comp. Sc)	11	11	07	04	100%
	TYBSc(Comp. Sc)	13	13	05	08	100%
	FYBCom(I.T.)	204	204	103	101	90%
	FYBA(I.T.)	70	70	22	48	95%
	FYBSc(I.T.)	31	31	06	25	100%
2013-14	FYBSc(Comp. Sc)	20	11*	06	05	90%
	SYBSc(Comp. Sc)	14	14	08	06	100%
	TYBSc(Comp. Sc)	11	11	05	06	100%
	FYBCom(I.T.)	118	118	54	64	90%
	FYBA(I.T.)	70	70	22	48	95%
	FYBSc(I.T.)	39	39	07	32	100%
2014-15	FYBSc(Comp. Sc)	03	03	03	00	95%
	SYBSc(Comp. Sc)	09	09	04	05	90%
	TYBSc(Comp. Sc)	09	09	05	04	100%
	FYBCom(I.T.)	71	71	28	43	85%
	FYBA(I.T.)	58	58	20	38	90%

	FYBSc(I.T.)	34	34	05	29	100%
2015-16	FYBSc(Comp. Sc)	25	18*	12	06	80%
	SYBSc(Comp. Sc)	02	02	02	00	100%
	TYBSc(Comp. Sc)	07	07	03	04	100% in V Sem
	FYBCom(I.T.)	142	142	59	83	90% in I Sem
	FYBA(I.T.)	82	82	21	61	80% in I Sem
	FYBSc(I.T.)	63	63	19	44	85% in I Sem

27. Diversity of Students

Year	% of from the same state			% of students from other states			% of students from abroad		
	FY	SY	TY	FY	SY	TY	FY	SY	TY
2010-11	100	100	100	nil	nil	nil	nil	nil	nil
2011-12	100	100	100	nil	nil	nil	nil	nil	nil
2012-13	100	100	100	nil	nil	nil	nil	nil	nil
2013-14	100	100	100	nil	nil	nil	nil	nil	nil
2014-15	95	100	100	05	nil	nil	nil	nil	nil
2015-16	95	100	100	05	nil	nil	nil	nil	nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?NIL

29. Student progression

Student Progression	Against % enrolled
UG to PG	95%
PG to M.Phil	--
PG to Ph.D.	--
Ph.D. to Post- Doctoral	--
Employed Campus selection	--
Other than campus recruitment	100%
Entrepreneurship/Self-employment	5%

30. Details of Infrastructural facilities

a) Library

- Books for the department in the Library: 1040
- Journals/periodicals subscribed by the dept.:03
- Journals/periodicals(multidisciplinary):04

b) Internet facilities for Staff & Students - Yes

c) Class rooms with ICT facility : All classrooms have ICT facility

- d) Laboratories: **Two labs that cater to Computer Science Students as well as Information Technology (F.C.) subject .One I.T. Lab infrastructure is under way.**

31. Number of students receiving financial assistance from college, university, government or other agencies : **Nil**

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

2010-11	Certificate Course on PHP and MySQL from 10 th May to 5 th June 2010.
2011-12	<ol style="list-style-type: none"> 1. Monthly Offline session by experts in computer subject's through NPTEL (Educational Gateway develop by IIT Mumbai) by faculty from IIT. 2. Certificate course in ASP.NET of 3 months duration was conducted from 11th Jan 2012. 3. Industrial Visit to DIGISOL, Verna on 2nd Dec 2011
2012-13	<ol style="list-style-type: none"> 1. Talk on Cyber Security by Mrs. C. Latha.,manager Canara Bank - 22nd March 2013
2013-14	<ol style="list-style-type: none"> 1. Guest Lecture with Firefox team - 13th July 2013 2. Robotics training on 27th Aug. 2013 3. Training Program in ALICE software to develop games - 8th,9th March 2013 4. Training Program on computerized assembly and production at International toy manufacturing Funskool company- 26th Oct 2013 5. Visit to NIO, Dona Paula on 5th March 2014
2014-15	<ol style="list-style-type: none"> 1. Webcast on JAVA in Collaboration with Oracle Academy- 24th July 2014 2. Online series of Lectures on Information Security by Oracle Academy-17th Mar 2015. 3. Code Java Together - Green foot Gaming Workshop conducted by Oracle Academy 4. Guest Lecture "Cyber Crime" -14th Mar 2015 5. Guest Lecture by Technical Delivery Manager(Ex-student) on "Design Patterns" on 19th March 2015 6. Virtual Seminar for Girls students on "Girls in ICT Day Celebration" by Oracle Campus Recruitment team- 23rd April 2015 7. Visit to "FOURTH BHARATIYA VIGYAN SAMMELAN and EXPO", on 6th Feb. 2015.

2015-16	<ol style="list-style-type: none"> 1. Certificate Course in Network Management in Network Security and Hacking Ethics by Dr. Swapan Purkait, Director of NETTECH Pvt. Ltd. from 4th to 12th Dec 2015 2. IT Quiz on 8th Jan 2016 organized by Damodar College, Margao. 3. Workshop on “Hardware Maintenance and Troubleshooting and Cloud Computing” held on 8th Feb 2016. 4. Industrial Visit to D Link India Pvt. Ltd. on 10th March 2016 5. Guest Lecture on “Cyber Security and Ethical Hacking” on 11th March 2015. 6. Short Term Certificate Computer Course under NDLM(National Digital Literacy Mission) in association with an NGO- Late Shri Raghunandan Mishra Siksha Prasaan Samittee from 8th to 14th March 2016 followed by online examination.
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33. Teaching methods adopted to improve student learning
- ✓ **Field trips to I.T. companies** in line with the curriculum.
 - ✓ **Quizzes, assignments, class seminars, surprise tests and presentations** on new trends of technology.
 - ✓ **ICT tools** used for better understanding of the topic like animation for better visuals.
 - ✓ **Subject experts** are invited from industry to fill the gap between industry needs and curriculum design.
 - ✓ Short term **Certificate Courses** are conducted
 - ✓ Solving question papers
 - ✓ Subject is taught as per **industry requirements** and **application oriented concepts** are delivered to get better understanding of the subject.
 - ✓ Certificate is awarded to the **First Year students of other discipline** who successfully complete **Practical in Information Technology**.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

2010-11	<ul style="list-style-type: none"> ➤ Faculty members were involved in Computer Training Program for the Technical/Administrative staff of the College from 9th April to 16th April 2011. ➤ Promoted Voluntary blood donation awareness campaigns (Goa State Aids Control Society, Govt. of Goa.)- 31st Oct 2011.
2011-12	<ul style="list-style-type: none"> ➤ Conducted Awareness program on Vector borne disease TB, HIV/AIDS in collaboration with Directorate of Health Services, Govt. of Goa – 23rd June 2011. ➤ Faculty member is a Nodal officer for All India Survey for Higher Education. ➤ Faculty member was involved in Training of staff as Master Trainer

	for Lok Sabha & Goa Assembly Election 24 th Dec 2011 till 15 th Jan 2012.
2012-13	<ul style="list-style-type: none"> ➤ Collaborated with HDFC, ICICI, CANARA Bank and Pharma Industries for placements for the Final year Students.- 15th March 2013 ➤ Faculty member is a Nodal officer for All India Survey for Higher Education. ➤ Faculty conducted Sensitization programs on yoga and meditation for schools and Colleges- 3rd Dec 2013.
2013-14	<ul style="list-style-type: none"> ➤ Faculty conducted Sensitization programs on yoga and meditation for schools and Colleges- 24th Aug 2013. ➤ Provided infrastructure to conduct online examination for competitive exam KIITEE- 25th , 26th Feb 2014 ➤ Faculty Nodal officer for All India Survey for Higher Education. ➤ Campus Recruitment drive by WIPRO for TYBSc students held on 22nd March 2014.
2014-15	<ul style="list-style-type: none"> ➤ Faculty member is a Nodal officer for All India Survey for Higher Education
2015-16	<ul style="list-style-type: none"> ➤ Faculty member was involved in preparation of SWEEP activities and collection of data for young Electorals June-July 2015, which was then submitted to the Office of Deputy Collector and S.D.O. Ponda Sub-division. ➤ Organized Industrial visit to DLink India Pvt. Ltd, Verna on 10th March 2016 ➤ Conducted training programme for students under the Mission of National Digital Literacy Programme in association with an NGO and Students' Council of the College. ➤ Faculty member is a Nodal officer for All India Survey for Higher Education. ➤ Members are involved in training the BDO's and Panchayats at GIRDA, OldGoa.

35. SWOC analysis of the department and Future plans

a) **Strength**

- Well qualified and experienced staff
- Teaching Learning- ICT enabled
- 100% results at Third Year University Exam
- Students excel in co-curricular and extra-curricular activities
- Good Interaction with Alumni
- Students pursue Higher Education by clearing Competitive Exams.

b) **Weakness**

- Financial constraint to buy new hardware and software to upgrade the lab facilities.
- Lack of Industry- department interaction.

c) Opportunities

- To start Interdisciplinary Course
- To initiate Skill based courses

d) Challenges

Overcome the barrier between industry needs and curriculum design.

Future plan

- ✓ To conduct Networking Certificate Course in the college in collaboration with D Link India Pvt. Ltd.
- ✓ To initiate interdisciplinary courses.
- ✓ To start Specialization Certificate Courses to provide better employment to students.
- ✓ To have MOU with I T industries for hands on training for students.
- ✓ To Collaborate with National labs for research and expertise.
- ✓ Motivating Faculty members for research and further studies.

Evaluative Report of the Department

Department Of Mathematics

1. Name of the Department :**Mathematics**
2. Year of Establishment:**1989**
3. Names of Programs/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.) :
UG - B.Sc.(I to IV Semesters)
UG - B.Com.(I to IV Semesters)
4. Names of Interdisciplinary courses and the departments/units involved:
Discrete Mathematics, Analytical Geometry, Numerical methods, Differential Equations, Analysis, Mathematical Techniques, Statistical Techniques.
5. Annual/semester/choice based credit system (programme wise):
UG-Semester system
6. Participation of the department in the courses offered by other departments:

Sr. No.	Program	Semesters	Courses/Units	Departments
1	UG	I to IV	B.Com.- Mathematical Techniques, Statistical Techniques,	Commerce
2	UG	I to IV	B.Sc.(Comp. Sc., PCM) -Discrete Mathematics, Analysis, Analytical Geometry, Numerical methods, Differential Equations, Statistics	Computer Science, Physics, Chemistry,

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **Nil**
8. Details of courses / programs discontinued(if any)with reasons: **Nil**
9. Number of Teaching posts

	Sanctioned	Filled
Associate Professors	02	02

10. Faculty profile

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph.D. Students Guided for the Last 4 years
Dr. Lucas Miranda	M.Sc., M.Phil. Ph. D.	Associate Professor	-Functional Numerical Analysis -Algebraic Topology	27 Yrs - UG	Nil
Mrs. Varada A. Kalas	M.Sc., B.Ed., M.Phil.	Associate Professor	Complex Analysis Certain Topics In Univalent Functions With Negative Coefficients	20 Yrs (UG) 03 Yrs (HS)	Nil

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :

Year	2011-12	2012 -13	2013 -14	2014 -15	2015- 16
Percentage	Nil	Nil	20%	Nil	51%

13. Student-Teacher Ratio (programme wise):

Academic Year	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Student : Teacher Ratio	B.Com.- 68 :1 B.Sc. - 15 : 1	B.Com.- 76:1 B.Sc. - 20 : 1	B.Com.- 72 :1 B.Sc. - 15 : 1	B.Com.- 66 : 1 B.Sc. - 25 : 1	B.Com.- 66 : 1 B.Sc. - 25 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : Nil

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:

Name	Qualification
Dr. Lucas Miranda	M.Sc., M.Phil., Ph. D.
Mrs. Varada Kalas	M.Sc., M.Phil.

16. Number of faculty with ongoing projects from (a)National (b)International funding agencies and grants received : **Nil**

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received :**Nil**

18. Research Centre/facility recognized by the University : **Nil**

19. Publications: **Nil**

20. Areas of consultancy and income generated:
Department helped various students with maths difficulties.
Nil income generated.

21. Faculty as members in a)National Committees: b)International Committees: c)Editorial Boards: **Nil**

22. Student projects

a)Percentage of students who have done in-house projects including inter departmental/programme: **Nil**

b)Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :**Nil**

23. Awards/Recognitions received by faculty and students : **Nil**

24. List of eminent academicians and scientists/visitors to the department : **Nil**

25. Seminars/Conferences/Workshops organized & the source of funding :**Nil**

26. Student profile programme/course wise:

Year	Name of the course/Programme (Sem I to IV)	Applications received	Selected	Enrolled		Pass %
				M	F	
2011-12	B.Sc.	29	29	13	16	100
	B.Com.	240	240	105	135	92
2012-13	B.Sc	40	40	22	18	88
	B.Com	336	336	168	168	86
2013- 14	B.Sc	39	39	20	19	87
	B.Com	322	322	174	164	78
2014- 15	B.Sc	16	16	09	07	88

	B.Com	189	189	99	106	89
2015-16	B.Sc	30	30	22	08	90
	B.Com	213	213	115	98	88

27. Diversity of Students

Year	Name of the course	% of students from the same state	% of students from other States	% of students from abroad
2011-12	B.Sc./B.Com.	100%	Nil	Nil
2012-13	B.Sc./B.Com.	100%	Nil	Nil
2013- 14	B.Sc./B.Com.	95%	5%	Nil
2014- 15	B.Sc./B.Com.	80%	20%	Nil
2015-16	B.Sc./B.Com.	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **Nil**

29. Student progression: **N. A.**

30. Details of Infrastructural facilities -

a) Library : **Number of books - 558**

No of journals subscribed : 1

b) Internet facilities for staff & students : **Not available**

c) Class rooms with ICT facility - **LCD facility**

d) Laboratories - **Nil**

31. Number of students receiving financial assistance from college, university, Government or other agencies :

Year	Number of students received scholarships	
2011-2012	B.Sc.- 06	B.Com.- 116
2012-2013	B.Sc.- Nil	B.Com.- Nil
2013-2014	B.Sc.- Nil	B.Com.- Nil
2014-2015	B.Sc.- Nil	B.Com.- Nil
2015-2016	B.Sc.- Nil	B.Com.- Nil

32. Details on student enrichment programs (special lectures/workshops/Seminar) with external experts:

Lecture on Python Programming by Prof. Brian D' Souza, St Xavier College, Mapusa. in the academic year 2014-15.

33. Teaching methods adopted to improve student learning:
- 1) Solving maximum number of problems in the class and in the practicals
 - 2) Giving assignments, power point presentation.
 - 3) Adopt lecture cum discussion method where in students can freely share their opinions on various topics in the subject.
 - 4) Interactive class room sessions and also Practical assignments involves group discussions.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Dr. Lucas Miranda** 1) was appointed as **subject expert** for the **Ph.D. Programme in 2015-16**, 2) helps numerous ex-students and needy who approach with difficulties in maths at various level.
- Students Participate in activities organized by NSS unit and nature club.
- A workshop on applied mathematics was co-ordinated by **Mrs. Varada Kalas** for maths students of neighbouring colleges.
35. SWOC analysis of the department and Future plans
- a) **Strength :**
 - Committed and efficient faculty.
 - Very good results in last five years.
 - Increase in number of students.
 - All classrooms are fitted with LCD projectors
 - Good collection of books in the library for students.
 - b) **Weakness :**
 - No students for third year.
 - c) **Opportunity :**
 - New infrastructural facilities.
 - Students can take up competitive examinations.
 - d) **Challenges:**
 - To introduce better courses for Maths students.
 - To motivate students to go for higher studies.
- Future plan** - To start three and six units in mathematics

EVALUATIVE REPORT OF THE DEPARTMENT

COMMERCE DEPARTMENT

1. Name of the department: **Commerce**
2. Year of Establishment: **June 1989**
3. Name of the programme/courses offered (UG,PG, M.phil, Ph.D, Integrated Masters, Integrated PhD,etc):
UG: B.com,
PG: M.Com. (Applied)
4. Names of Interdisciplinary courses and the departments/units involved:
Nil
5. Annual/ semester/ choice based credit system (programme wise):
Semester (I to VI)
Semester (I to IV)
6. Participation of the department in the courses offered by the other departments: **NIL**
7. Courses in collaboration with other universities, industries, foreign institutions, etc: Goa University: **NIL**
8. Details of course/programmes discounted(if any) with reason:**Nil**
9. Number of teaching posts

	Sanctioned	Filled
Associate Professors	1	1
Asst. Professors	7	7

10. Faculty profile with name, qualification, designation, Specialization, (D.Sc/D.Litt./Ph.D,etc)

Name	Qualification	Designation	Specialization	No. of years of Experience	No. Of PhD Students guided for the last 4 years
Dr. S.V Sukthankar	M.com, MB.A, SET, Ph.D	Asso. Professor	Accounting & Management	27	NIL
Mrs. Radhamani Divkar	M.Com.	Asst. Professor	Management	20	NIL
Ms. Yanita Palkar	M.Com. NET	Asst. Professor	Accounting	03	NIL
Mrs. Ranjana Sawaikar	M.Com. CA (Final Part II), SET	Asst. Professor	Accounting	06	NIL
Mr. Devanand Velingkar	M.com, B Ed, MB.A, NET	Asst. Professor	Accounting	08	NIL
Ms Lily Endro	M. Com., NET	Asst. Professor	Management	05	NIL
Ms. Bhakti Kudnekar	M. Com., SET	Asst. Professor	Commerce	01	NIL
Ms. Niveda Korgaonkar	M. Com., B Ed,	Asst. Professor	Commerce	03	NIL
Ms. Ajita Harmalkar	M. Com., B Ed,	Asst. Professor	Commerce	03	NIL
Mr. Saprem Shirvoikar	LLM	Asst. Professor	Business Law	6 months	NIL

11. List of senior visiting faculty :

- Prof. Vithal Sukthankar, Professor of Computer Science, Goa Institute of Management, Sanquelim, Goa.
- Dr. Nilesh Borde, Associate Professor, Department of Management studies, Goa University.
- Prof. Mahajan, Professor of Commerce, Shimla University, HP.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: -

13. Student - teacher ratio (programme wise):**40:1**
14. Number of academic support staff (technical) and administrative staff, sanctioned and filled:**NIL**
15. Qualification of teaching faculty with DSc/D.litt/ PhD/ M.phil/ PG.)

Sr. No.	Name	Qualification
1	Dr. S.V Sukthankar	M.Com., Ph.D.
2	Mrs. Radhamani Divkar	M.Com
3	Ms. Yanita Palkar	M.Com.
4	Mrs. Ranjana Sawaikar	M.Com
5	Mr. Devanand Velingkar	M.Com.
6	Ms. Lily Endro	M. Com.
7	Ms. Bhakti Kudnekar	M. Com.
8	Ms. Niveda Korgaonkar	M. Com.
9	Ms. Ajita Harmalkar	M. Com.
10	Mr. Saprem Shirvoikar	LLM

16. Number of faculty ongoing projects from a) National b) International funding agencies and grants received: **NIL**
17. Departmental projects funded by DST- FIST, UGC, DBT, ICSSR, etc and total grants received: **NIL**
18. Research centre/facility recognized by the university:**Applied for PG.Programme and Research Centre (in Process)**
19. Publications:

Dr. S.V Sukthankar

Dr. S.V Sukthankar (2013): A study on growth of hotel industry in Goa, IOSR journal of Humanities & Social Sciences, Volume 11, Issue 2, May-June 2013. ISSN NO. 2279-0845. **Impact factor 1.607**

Dr. S.V Sukthankar. (2013): Tourism & Hotel Industry in Goa- A study, Atharva, Vol 8 No 5, May 2013. ISSN 0973947-5

Dr. S.V Sukthankar. (2013): A study of the growth of Hotel Industry in Goa. The Goa Geographer, Vol X, No 1, Dec 2013. ISSN 0976-786X

Dr. S.V Sukthankar. (2013): Educational tours: A study, Atharva, Vol 9, No. 7, July1, 2014 ISSN 0973947-5

Ms.Ranjana Sawaikar (2014): The companies Act 2013 An Analysis, Atharva, Vol.9 No.10, October 2014 ISSN 0973947-5.

Mrs. Divakar Radhamani

Divakar R. and Guntur. A.R. Sept. (2015), "Parental regulation of children's T.V viewing behaviour", Splint International Journal of Professionals, 2(9), pp. 75-82.

Divakar R. and Guntur. A.R. Sept. (2015), "Factors influencing children's consumption of fast food in Goa", International Journal of Business, Management and Social Sciences, 5(1), pp.84-88.

Divakar R. and Guntur. A.R. Oct.(2015), "Impact of various factors on children's fast food consumption in Goa", International Journal of Management and Social Science Research Review, 1(16), pp.353-356.

Divakar R. and Guntur. A.R. Nov. (2015), "Influence of T.V advertisements on children's food and beverage preferences: A study from Goa", Global Journal for Research Analysis, 4(11), pp.6-8.

Divakar R. and Guntur. A.R. Jan-March, (2016), "Children's interest in T.V advertisements: Area, age and gender analysis", International Journal of Business and Administration Research Review, 1(1), pp.253-258.

Divakar R. and Guntur. A.R. March (2016),"Parent's attitude towards advertising, T.V viewing and consumption of advertised products: An empirical study in Goa", International Journal in Management and Social Sciences, 4(3), pp.17-28.

Divakar R. and Guntur. A.R. May (2016),"Children's interest in T.V advertisements and their T.V viewing behaviour," Indian Journal of Marketing, 46(5), pp.55-66.

Divakar R. and Guntur. A.R. May (2016),"Children's preferences towards branded and unbranded food products in the state of Goa," International Journal of Multifaceted and Multilingual Studies, 3(5), pp.1-7.

Divakar R. and Guntur. A.R. July (2016),"Food preferences of children in Goa," Global Journal for Research Analysis, 5(7), pp. 39-40.

Divakar R. and Guntur. A.R. June (2016), "Parental regulation on children's T.V viewing and consumption of advertised products in Goa," Splint International Journal of Professionals, 3(6), pp. 20-30.

a) **Publications per faculty:**

Number of papers published in peer reviewed journals (national/international) by faculty and students: **15**

Number of publication listed in international Database(for E.g.: Web of science, Scopus, Humanities International complete, Dare Database-International Social sciences Directory, EBSCO host, etc)Impact factor:**3.62**

20. Areas of consultancy and income generated:Yes

Area of consultancy: Jeevak Products

Income Generated: Honorary basis.

21. Faculty as members in

a) National Committees: **NIL**

b) International committees:**NIL**

c) Editorial Boards: **NIL**

Faculty members appointed for other commendable work:

Dr.S.V.Sukthankar,

- Elected member of Court, Goa University.
- was appointed as subject expert for the selection of Assistant Professor in Commerce by
 - 1) Goa Public Service Commission,
 - 2) VidhyaPrabhodini College of Commerce, Porvorim,
 - 3) Zantye College, Bicholim,
 - 4) C.E.S. College of Arts and Commerce, Cuncolim,
 - 5) G.V.M. College of commerce and Economics, Ponda,
 - 6) Directorate of Higher Education, Porvorim.
- Was appointed as Subject expert by the screening committee for granting UGC Fellowship to Asst. Professors of Commerce by GopalGovind Poi Raitukar College of Commerce & Economics-Ponda.
- Worked as a member of a Committee for granting research centre & for commencing of B.A in Business Economics in Dempo College.

22. Student Projects

- a. Percentage of students who have done in -house projects including inter departmental/ programme: **NIL**
- b. Percentage of students placed for projects in organisations outside the institution, i.e. in Research laboratories/ Industry/ other agencies: **100%**.

Year	Names of the Company
2011 - 2012	Hitek Brass Products
	M/S Jakotia Plastic Private Ltd. Kundiam Goa
	Goa State Co-op Milk Producers Union Ltd.
	M/S Pure Water Beverages, Verna Goa
	M/S Akruti Tiles and Marbles Pvt. Ltd.
	Sanjivani Sahakari Sakhar Kharkhana Ltd.
	Surya Agro Industry
	Dempo Shipbuilding & Engineering Ltd. Bainguinim Goa
	Ranbaxy Laboratories Ltd. Madkaim - Goa
	Dabolim Airport, Vasco Goa
	MRF Ltd, Usgao, Ponda Goa
Syngenta Ltd., Corlim, Tiswadi Goa	
2012- 2013	Hitek Brass Products
	M/S Jakotia Plastic Private Ltd. Kundiam Goa
	Goa State Co-op Milk Producers Union Ltd.
	M/S Pure Water Beverages, Verna Goa
2013 - 2014	Churi Industries Kundaim - Goa
	Putzmeister Concrete Machines Pvt. Ltd. Verna - Goa
	Ranbaxy Laboratories Ltd. Madkaim - Goa
	Jeevak Industries
2014 - 2015	Narayan Zantye Cashew Factory Bicholim - Goa
	Merk Ltd. Usgao Goa
	Brown Packaging Pvt. Ltd. Corlim Goa
	Vaibhav Packaging Kundiam Goa
	Chowgule Industries Pvt. Ltd.
	Menezes Camco Pvt. Ltd.
	Mahal Plastic and Fiber Pvt. Ltd.
	Vijaya Packaging
	Poultry Industry in Goa
	Hindustan Unilever Ltd.
	Encube Ethicals
Aditya Beverages Madkaim - Goa	
2015-2016	Sharayu Toyoto Verna - Goa
	Mahavir Plastic Ltd. Corlim Goa
	Nana Food and Spices
	R.K. Industrial Corporation

	Aviza Technologies Kundaim Goa
	Alcon Cement Pvt. Ltd. Surla Bicholim
	Goa Dairy
	HPCL Kundaim

23. Awards/Recognitions received by Faculty and students.: **NIL**

24. List of eminent academicians and Scientists/Visitors to the department.

Mr. Manguirish N. PaiRaikar Ex- President of Goa Chamber of Commerce & Proprietor of SR Consultancy Services, Panjim- Goa
Mr. Kashinath Naik Alumini and Managing Director, The Goa State Co-Op-Marketing and Supply Federation Ltd., Panjim- Goa
Mr. Howarl Wayled Professor in Communication, Global Business School, Hubli-Karnataka
Mr. Uday Lavate Director, Global Business School, Hubli- Karnataka
Dr. G. Shrinivas Asst. Regional Director, IGNOU Regional Centre, Alto- Porvorim Goa
Mr. D.S. Prashant Executive Centre for Incubation and Business Acceleration (CIBA), Assagao-Mapusa- Goa
Mr. Vithal Sukhthankar Professor of computer Science, GIM, Karapur, Sankhali- Goa
Mr. Prabhakar Rane Certified Trainer, SEBI-5 th Floor EDC House Panjim-Goa
Mr. Shyam Prabhu Proprietor of Matrix Enterprise, Panjim- Goa
Mr. Roland Martines Co-ordinator, GOACAN, Mapusa- Goa
Mr. Shrirang Jhamble, Principal Krishna Pai Raikar Agricultural H.S.S. Savoi-Verem, Ponda-Goa
Dr. Dayanand Rao Professor of Medicine, GMC, Bambolim-Goa

25. Seminars/Conferences/Workshops organised and the source of funding
- National
 - International
 - State Level Seminar

Sr. No	Particulars	Sponsored
1	'A state level one day seminar on Execution & Relevance of Study tour '	Shri. Deepak Dhavalikar, Hon. Minister of Priol Constituency
2	'A workshop on consumer rights'	Directorate of Civil supplies, Government of Goa
3	"A State level one day workshop on Consumer protection Act with special reference to Health for NSS programme Officers from college & Higher secondary Schools of Goa".	Directorate of Civil supplies, Government of Goa, proposed in Jan 2017
4	"A half day workshop on Consumer protection Act with special reference to Consumer rights to Food Safety for Panchayat Members, Self Help Groups & NGOs".	Directorate of Civil supplies proposed in Jan 2017

26. Student profile programme/course wise: **Student Profile Programme/Course wise**

Year	Programme	Applications Received	Selected	Enrolled		Pass Percentage
				Male	Female	
2010	F.Y.B.Com	108	108	37	71	100%
-	S.Y.B.Com	69	69	18	51	76%
2011	T.Y.B.Com	81	81	49	32	79%
2011	F.Y.B.Com	132	132	58	74	100%
-	S.Y.B.Com	78	78	24	54	75%
2012	T.Y.B.Com	69	69	49	20	80%
2012	F.Y.B.Com	204	204	103	101	100%
-	S.Y.B.Com	113	113	48	65	78%
2013	T.Y.B.Com	86	86	24	62	88%
2013	F.Y.B.Com	164	164	55	109	100%
-	S.Y.B.Com	182	182	88	94	61%
2014	T.Y.B.Com	100	100	34	66	82%
2014	F.Y.B.Com	71	71	28	43	100%
-	S.Y.B.Com	101	101	45	56	68%
2015	T.Y.B.Com	137	137	78	59	76%

2015	F.Y.B.Com	142	142	59	83	100%
-	S.Y.B.Com	63	63	26	37	54%
2016	T.Y.B.Com	103	103	58	45	89%

27. Diversity of students:**Diversity of Students**

Name of the Course	Percentage of students from the same state	Percentage of students from other states	Percentage of students from abroad
Commerce	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SIET, GATE, civil services, Defence services, etc?: **Nil**

29. Student progression:**Students Progression**

Student Progression	Against % Enrolled				
	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	17%	22%	25%	7%	17%
Employed	80%	74%	73%	70%	50%
Entrepreneurship/Self-Employment	3%	4%	2%	4%	4%

30. Details of Infrastructural facilities

a. Library

	Existing	Newly added
	No.	No.
Text Books	9046	215
Reference Books	11386	131
Journals	-	21
CD & Video	360	-
Others (specify)	715	40
Project Report	-	37

- b. Internet facility for staff & student: **Not available to teaching staff in the staff room.**
- c. Classrooms with ICT facility : **All classrooms are ICT enabled**
- d. Laboratories : **Commerce lab & IT Lab are ICT enabled**

31. Number of students receiving financial assistance from college, university, government or other agencies

	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
Post metric Scholarship to ST	63	41	25	27	17
Gagan Bharari to ST	32	41	04	02	Nil
Merit Award	Nil	06	Nil	03	Nil

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external expert: **Special lectures**

Sr. No.	Name and designation of Resource person	Topic
1	Mr. Manguirish N. Pai Raikar; Ex- President of Goa Chamber of Commerce & Proprietor of SR Consultancy Services Panjim- Goa	Industry expectation from Commerce graduate
2	Mr. Kashinath Naik Alumini and Managing Director The Goa State Co-Op-Marketing and Supply Federation Ltd. Panjim- Goa	Getting Industry ready- Hard work ahead
3	Mr. Howarl Wayled, Professor in Communication Global Business School Hubli-Karnataka	Personality Development , Public Speaking and Communication
4	Mr. Uday Lavate Director, Global Business School Hubli- Karnataka	How to prepare CV-Group Discussion
5	Dr. G. Shrinivas, Asst. Regional Director, IGNOU Regional Centre Alto- Porvorim Goa	IGNOU- Opportunities for learning
6	Mr. D.S. Prashant Executive Centre for Incubation and Business Acceleration (CIBA) Assagao- Mapusa- Goa	Challenges and Opportunities in Entrepreneurship
7	Mr. Vithal Sukhthankar Professor of computer Science GIM, Karapur, Sankhali- Goa	Self Motivation
8	Mr. Prabhakar Rane, Certified Trainer, SEBI- 5 th Floor EDC House, Panjim-Goa	Investment opportunities for young investors

9	Mr. Shyam Prabhu Proprietor of Matrix Enterprise, Panjim- Goa	The effective use of LCD Projector in teaching and learning process
10	Mr. Roland Martines, Co-ordinator, GOACAN, Mapusa- Goa	The Consumer Protection Act
11	Mr. Shrirang Jhamble, Principal Krishna Pai Raikar Agricultural H.S.S.Savoi-Verem, Ponda-Goa	Opportunities and Challenges for Rural Enterprise
12	Dr. Dayanand Rao ,Professor of Medicine, GMC, Bambolim-Goa	Opportunities and challenges for youth

33. **Teaching methods adopted to improve student learning :**

- Industrial/field visits to industries like Goa Dairy, Revathi Synthetics Private Limited, Sanjeevani Sahakari Karkhana Ltd, Caculo Mall, Vishal Mega Mart, Goa Bhagayatdar, Central library, Mall De Goa are organized where they get insights into the practical working of industries/ banking and financial sectors etc.
- Students are engaged in constructive and subject related group discussions, brainstorming sessions poster presentations, PowerPoint presentations, assignments from time to time. Melas are organised to develop entrepreneurial qualities.
- Guests lectures by experts in various subjects, Managerial Personnel from industry and officials of the GCCI visit our campus and interact with our students.
- Students are encouraged to participate in 1)seminars, workshops etc organised by other institutions. 2) intra and extra-mural competitions, NSS, Sports etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities;

The dept. of Commerce has undertaken the responsibility of NSS of the College, the activities are:

- The dropout rate of students from the institution is minimized through counselling of Students from the disadvantaged sections of the society, physically challenged, slow learners, etc.
- Economically weaker sections of the student populace are assisted through various State Government and Institutional scholarships. In case students are unable to pay their admission/examination fees before the due date, faculty members provide temporary financial assistance.

1.	Role of NSS in Youth Development	Mr. Pradeep Morajkar NSS Coordinator,Goa University
2.	Road Safety	Mr. Minesh Tar RTO,Directorate of Transport,Mapusa Goa
3.	Suicide Prevention	Ms. Donna Noronha , Co- ordinator,Cooj
4.	Importance of Snake and First Aid at the time of Bite.	Mr. Chandrakant Shinde , Grade 1 Teacher, Damodar Higher Secondary School, Margao Goa
5.	Importance of Physical Fitness	Mr. Sam Braganza Asst.Director,Directorate of Sports Govt.College of Pernem Goa
6	Relevance of Social Work	Mr. Sudesh Gaude, Asst. Director,Directorate of Social Welfare,Panjim Goa
7.	Importance of NSS	Mr. Manoj Karapurkar, Grade 1 Teacher, Govt. Higher Secondary School, khandola-Goa
8.	Cyber Crimes	PSI Kabir Shirgaonkar PSI of Crime Branch, Raibandar Goa
9.	A Talk on Cancer Awareness	Dr.Sandhya Kadam,Porvorim Goa
10.	A Talk on TB Awareness	Dr. Gauresh Ganjekar, Health Officer, Primary Health Centre,Sankhali-Goa
11.	The practical session - Yoga	Mr.Pankaj Satodkar,Yoga Trainer, Bicholim.
12.	Sports and Wellness	Dr. Ramlal Vernekar, Directorate of Sports C.S. College,Cuncolim Salcet Goa
13.	Healthy Lifestyle for Young Generation	Dr. Prathmesh Karpe ,Lecturer in Shalya Shastra, Gomantak Ayurvedic College Shiroda Goa
14	'Lecture on Disability awareness'	Mr. Shivdas Chari Lokvishwas Prathisthan,Special School, Marcela Goa
15	Stress Management	Mr. Adolph M.D. Castellino, Counsellor

16	Police for service in humanity	P.I. Sudesh Naik, Ponda Police Station
17	A Talk on First Aid	Dr.Meena , Red Cross Panajim Goa
18	Preliminary Health care	Dr.Ugam Tari, Primary Health Centre ,Betki Goa
19	A Snake Show	Shricharan Dessai , Animal Rescue squad, Ponda.

- Faculty also adopt students from financially depressed background and provide financial assistance.
- Book bank facilities for needy students.

a) Study Tours organized by the faculty

Study tours are organised for the staff and students of the college:

S.no	Year	Places
1	2016-17	Ahmedabad-Jodhpur-Jaisalmer-Bikaner-Manali-Kullu-Amritsar-Chandigarh
2	2015-16	Bhubeneshwar-Konark-Puri-Calcutta-Darjeeling-Gangtok-Tasngolake-Pashupati (Nepal) -NJP
3	2014-15	Gorakhpur-Khatmandu-Manokamana-Lumbani-Varanasi.
4	2013-14	Agra-Delhi-Shimla-Kullu-Manikaran-Manali-Amritsar-Chandigarh.
5	2012-13	Delhi-Nainital-Bhimtal-Mossorie-Dhanualty-Dehradun-Rishikesh-Haridwar.

b) **Guest talks**

- c) **Community service:** The students as NSS Volunteers from commerce participated in community work on Sundays at Sneha Mandir, an old age home, Sanjeevan, St. Xavier School for deaf & dumb, Lokvishwas Pratishthan School for deaf & dumb, Karmali railway station, Government Primary Health centre, Betki etc.

d) **Extension service:**

Dr S.V. Sukthankar was appointed as 1) master trainer to train election staff for conduct of Assembly Election & Lok Sabha election. 2) Officer for sealing & commencing of EVM for Assembly election & Lok Sabha election

35. SWOC analysis of the department and future plans.
- **Strengths**
 - Student strength
 - A substantially high gross enrollment ratio of ST/OBC students
 - A large percentage enrolment of female students
 - Experienced and qualified staff
 - Research oriented faculty.
 - Social Outreach /Community Service Programmes
 - Participation in co-curricular and extra - curricular activities
 - Latent leadership groomed for vertical mobility
 - Teaching-Learning: ICT Enabled
 - Well equipped library with book bank facility.
 - Healthy staff-management relations
 - Orientation towards National priorities
 - Open door policy towards admissions

 - **Weaknesses**
 - Financial constraints.
 - Lack of sports facilities.
 - A considerable number of faculty employed on contract and lecture basis.
 - Lack of industry-institution linkage.

 - **Opportunities**
 - Expansion of academic programmes.
 - Non-existence of any Institution associated with tribal and deprivation studies in the entire state of Goa.

 - **Challenges**
 - Adapting to fixed and set curriculum of the affiliating university.
 - Improving the teaching-learning outcomes.
 - Placement of students in gainful employment.
 - Optimal utilization of new campus.
 - Improving Student- teacher ratio.
 - Promoting the use of staff expertise in consultancy.
- Future plans**
- To start P.G M.com.
 - To start Research Centre.
 - To start BBA.
 - To publish a Research Journal.
 - To start Student consumer co-operative store.

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF POLITICAL SCIENCE

1. Name of the department : **Political Science**
2. Year of Establishment: **1989**
3. Names of Programs/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : **Undergraduate Programme in B.A.**
4. Names of Interdisciplinary courses and the departments/units involved : **Nil**
5. Annual/ semester/choice based credit system (programme wise) : **Semester**
6. Participation of the department in the courses offered by other departments: **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : **Nil**
8. Details of courses/programs discontinued (if any) with reasons: **N.A.**
9. Number of Teaching posts:

Post	Sanctioned	Filled
Associate Professors	01	01
Asst. Professors	01	Lecture Basis

10. Faculty Profile

Name	Qualification	Designation	Specialization	Years of experience	No. of Ph.D students guided for last 4 years
Dr. Seema P. Salgaonkar	M. A.,Ph.D.	Associate Professor	Gender studies, Grassroots Governance	24	Nil
Mr. Swapnil Naik	M.A.	Assistant Professor	Political Science	05	Nil

11. List of senior visiting faculty: **Nil**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :

Class	Percentage of lectures
F.Y.B.A	60%
S.Y. B.A.	20%
T.Y.B.A.	33%

13. Student -Teacher Ratio (programme wise) :**Academic Year:2015-16**

Programme	Student-Teacher Ratio
F.Y. B.A.	31:1
S.Y.B.A.	20:1
T.Y.B.A.	10:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

Name	Qualification
Dr. Seema P. Salgaonkar	M. A., Ph.D.
Mr. Swapnil Naik	M.A.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Name of the project	Duration (years) From- To	Title of the project	Name of funding agency	Total Grant received
Minor project	2005-2007	Empowerment of Women through WSHGs-A Case Study of Goa	UGC	50,000/-
Major project	2011-2013	Gram Sabhas in Goa: Analysis and Perspective	ICSSR	4,37000/-

18. Research Centre / facility recognized by the University: **Affiliation Awaited**

19. Publications:

a) Publication per faculty: 15

1. **Seema P. Salgaonkar** October-December; 2008, **“Financial Assistance to Widows”**, Social Action, a quarterly review of Social Trends Vol. 58, No. 4, ISSN: 0037-7627.
2. **Seema P. Salgaonkar** April-June; 2009, **“Panchayats and Women Self Help Groups (WSHGs)-Understanding the Symbiosis”**, Indian Journal of Political Science, Vol. LXX. No.2, ISSN: 0019-5561.
3. **Seema P. Salgaonkar** November; 2011, **“Loan as a Linkage between Banks and WSHGs”** Bharti - Journal of Business and Finance, Vol. 1, ISSN: 2321-7685.
4. **Seema P. Salgaonkar** July -Dec; 2011, **“Gram Sabhas Gaining Momentum in Goa - Instances of political Empowerment”** Dynamics of Public Administration, Vol. 28, No. 2, ISSN: 0975-3907, ISSN: 0975-3907.
5. **Seema P. Salgaonkar** August; 2012, **Abuse of Money Power in Elections and Possibilities of State funding**, Khoj, An Interdisciplinary Journal, Government College, Khandola.
6. **Seema P. Salgaonkar** Jan-March; 2012, **“Can Gram Sabha Check Corruption at the Grassroots? Study of Goa”**, The Indian Journal of Public Administration, quarterly Journal of The Indian Institute of Public Administration, Vol. LVIII, No.1, ISSN: 0019-5510 .
7. **Seema P. Salgaonkar** Jan-March; 2012, **“Amalgam of Leadership styles: A Case Study of First Chief Minister of Goa”**, Indian Journal of Political Science, ISSN: 0019-5561.
8. **Seema P. Salgaonkar** 2012, **“An Alternative Strategy for Empowerment: A Study of WSHGs in Goa”**, Emphasis – A Journal of Social Sciences, Vol. 6, ISSN: 2230-8258.
9. **Seema P. Salgaonkar** April-June; 2013, **“Changing Trends in Participation at Grassroots: Experience from Goa”**, ISDA Journal, Studies in Development and Administration, Vol. 23 No. 2, ISSN: 0971-2550.
10. **Seema P. Salgaonkar** April; 2013, **“Increasing Participation and Changing Paradigm of Democracy at Grassroots: A Study of Gram Sabha in Goa”**, International Journal of Rural Studies (IJRS), Vol. 20 N.1, ISSN: 1023-2001.
11. **Seema P. Salgaonkar** April 22-28; 2013, **“Accessibility to Higher Education and Indigenous Entrepreneurship”**, University News, Vol. 51, No. 16, ISSN-0566-2275.
12. **Seema P. Salgaonkar** January 2014, **‘Self regarding to others regarding’: A study of Changing Trends in Participation at**

- Grassroots**, Proceedings in International Conference on Deepening Democracy, January 19-21, Thiruvananthapuram, Kerala.
13. **Seema P. Salgaonkar** July-December; 2014, **“Trust and People Participation at Gram Sabhas: Implications for Grassroots Democracy”**, Research Process, International Journal of the Social Research Foundation, ISSN: 2321-211X.
 14. **Seema P. Salgaonkar** January 1; 2015, **“Significance of Participation at Gram Sabha & Implications for Reforms: Insights from Goa”** Atharva, ISSN: 0973-9475.
 15. **Seema P. Salgaonkar** March 14-20; 2016, **“Small Size of the State and Stride in Education: An Insight from Goa”**, University News, ISSN-0566-2275.
- b) Number of publications listed in International Database : 01
 Research article titled **‘Gram Sabhas Gaining Momentum in Goa - Instances of political Empowerment’** is published in Dynamics of Public Administration (July-December, 2011) which is Indexed/ Abstracted in Index Copernicus, J-Gate, EBSCO Discovery, Summon (Proquest), Google Scholar, Indian Science Abstracts and Indian Citation Index
- c) Chapter in Books:
- Seema P. Salgaonkar, 2008, **‘Globalization, Women and Issues at Stake’**, in Globalization and Political Culture (ed.), Gautam Book company, Jaipur, ISBN 978-81-904601-2-5.
 - Seema P. Salgaonkar, 2016, **‘Women Headed Panchayats and Empowerment at Grassroots in Goa: an update’**, in Goa Looking Back Looking Forward (ed.), Broadway Publishing House, Panaji ISBN: 978-93-84298-34-0.
 - Seema P. Salgaonkar, 2016, **“Dimensions of Violence and Violation of Human Rights: A Case Study of Self Employed Women in Unorganized Sectors”**, in Multidisciplinary Approaches to Human Rights (ed.), Mittal Publications, New Delhi.
 - Seema P. Salgaonkar, 2016, **‘Women in Panchayati Raj - A Goan perspective’**, in 50 years of Panchayati Raj in Goa: Retrospect and Prospects (ed.), Broadway Publishing House, ISBN: 978-93-80837-89-5
 - Swapnil Naik, 2016 **‘Challenges in Dharbandora Taluka: Role of the Village Panchayat’**, in 50 years of Panchayati Raj in Goa: Retrospect

and Prospects (ed.), Broadway Publishing House, ISBN: 978-93-80837-89-5

a) Books Edited:**Nil**

b) Books with ISBN/ISSN numbers with details of publishers: **01**
'Awareness Level at Gram Sabhas in Goa: Analysis and Perspective' ISBN: 978-93-5142-672-1, Himalaya Publishing House

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

a. National committees b) International Committees c) Editorial Boards.

Dr. Seema P. Salgaonkar is Editorial board member of International Journal of Social Sciences & Economic Environment, ARSEAM, U.P. since 06-May-2016.

22. Student projects:

All students for Semester V/VI have to compulsorily opt for one project paper of 100 marks which is evaluated by external and internal examiner.

Projects undertaken by the students

Year wise	No of students	No of projects	Title
2010-11	02	01	Hindu Muslim Communities in Goa: A study of Communal Harmony
2011-12	03	01	Understanding the role of Opposition Leader in Goa: A Case Study of Shri ManoharParrikar
2012-13	10	02	1)Implementation of Ladli Lakshmi Scheme in Goa 2) Empowerment of Women at Grassroots
2014-15	03	01	Exposition of St. Francis Xavier and the Role of Stakeholders
2015-16	05	01	Controversy of Two Airports in Goa

a. Percentage of students who have done in-house projects including inter departmental/programme: **Nil**

b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : **Nil**

23. Awards / Recognitions received by faculty and students:
Students
1. **Miss Anjali Naik**, was awarded 2nd Prize at District Level Essay Competition organized to commemorate 3rd National Voters Day organized by the **Office of Chief Electoral Officer, Panaji** Goa on 25th January 2013.
 2. **Miss Vishranti Halgekar** and **Mr. Pravin Sawant**, secured second place in Intercollegiate Quiz competition on the Topic "**Goa Post Liberation Era**" organized by Department of Political Science, CES College, Cuncolim, Goa on 24/01/2012.
 3. The students of political Science participated in the street play competition organized by **Office of Chief Electoral Officer in association with Government College Quepem** to commemorate **National Voters Day in January 2014**, and secured third place.
24. List of eminent academicians and scientists / visitors to the department:

Name of the Resource Person	Topic of discussion	Date
Dr. Pramod Salgaonkar (Ex-Chaiperson), Women's Commission - Goa	Understanding and resolving the issues of sexual harassment	9/02/2011
Mr. Ravaji Gaonkar, Assistant Professor of Political Science, Government College, Sanquelim.	Significance of Right to Information	22/08/2013
Mr. Ravaji Gaonkar (official on Field) Sarva Sikhsha Abhiyan	Sarva Sikhsha Abhiyan - An Insight	14/02/2015

25. Seminars/ Conferences/Workshops organized & the source of funding:
- a. National : **Nil**
 - b. International: **Nil**

State Level Seminar was organized by the Department on 8-9th July 2016 funded by UGC on topic '**Women Headed Panchayats and Empowerment at Grassroots: An update**'.

26. Student profile programme/course wise:

Name of the course/program	Applications received	selected	Enrolled		Passing percentage
2011-12					
F.Y. B.A	39	39	10	29	87%
S.Y.B.A.	20	20	-	20	95%
T.Y.B.A.	10	10	01	09	100%
2012-13					
F.Y. B.A	48	48	16	32	94%
S.Y.B.A.	34	34	07	27	87%
T.Y.B.A.	08	08	-	08	100%
2013-14					
F.Y. B.A	28	28	09	19	93%
S.Y.B.A.	41	41	12	29	98%
T.Y.B.A.	12	12	05	07	100%
2014-15					
F.Y. B.A	26	26	10	16	92%
S.Y.B.A.	24	24	08	16	100%
T.Y.B.A.	20	20	02	18	90%
2015-16					
F.Y. B.A	30	30	07	23	93%
S.Y.B.A.	20	20	09	11	100%
T.Y.B.A.	10	10	04	06	90%

27. Diversity of Students (2011-2016)

Name of the course	Percentage of students from the same state	Percentage of students from other states	Percentage of students from abroad
F.Y./ S.Y./ T.Y. B.A. (Political Science)	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	20%
PG to M.Phil.	-
PG to Ph.D	-
Ph.D. to Post Doctoral	-

Employed Campus Selection	-
Other than Campus recruitment	50%
Entrepreneurship/self employment	2%

30. Details of Infrastructural facilities
- Library: **Around 382 books available**
 - Internet facilities for Staff & Students : **Available**
 - Class rooms with ICT facility : **yes**
 - Laboratories: **N.A.**
31. Number of students receiving financial assistance from college, university, government or other agencies:

Students receiving Financial Assistance (2016-17)

Class	General	OBC	ST	SC	Total
F.Y.B.A.	01 (Merit based)	04	01	-	06
S.Y.B.A	-	06	01	-	07
T.Y.B.A	-	01	-	-	01

32. Details on student enrichment programs (special lectures / workshops / seminar) with external experts:
- Various programs are undertaken by the Department to enrich the students with knowledge and information.
- Talks are organized on topics like **Right to Information, Sarva Shiksha Abhiyan, Need for women empowerment** etc.
 - Field trips are organized time to time. One of the prominent features is yearly visit to **village Panchayat of Mathias Divar, Kumbarjua, Old Goa, Navelim and Marcela.**
 - Students are also taken to **Goa Legislative Assembly and to GIPARD** (Goa Institute of Public Administration and Rural development) to get a deeper insight into the functioning.
 - The students of the department have attended workshops at **International Centre Dona Paula, at Goa University, at GIPARD,** and in other institutions and colleges from time to time. The students of Semester V of Political Science attended a lecture on **“India’s Foreign Policy: Look east”** at International Centre, Goa on 03-08-2013.
 - The department has organized rallies and street plays on voters’

rights, and on gender sensitization.

vi) To celebrate **Voters' Day**, a Rally was organized on 25th January 2014 from college to Marcel Market.

vii) To celebrate the **Women's day**, students of Political Science performed street plays at strategic locations in Marcel on 8/03/2016.

33. Teaching methods adopted to improve student learning

- **Emphasis is laid on chalk and board method.**
- **Power-point teaching is also a feature of the department.**
- **The students are also encouraged to do power-point presentations.**
- **Various methods are experimented to conduct Intra semester assessments like presentations, quizzes, orals, role plays, etc.**
- **Students are encouraged to refer to internet facilities as and when necessary.**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- **Dr. Seema P. Salgaonkar**, works as a **Chief Electoral Officer** to motivate the students in the college completing 18 years to enroll themselves as voters in collaboration with the **Block Development Officer** and the **Deputy Collector of Ponda Taluka**. She also worked as a **Master Trainer** to train the election staff during **Lok Sabha** as well as **State Assembly elections**.
 - She provides consultancy (honorary) in the areas of formation and functioning of **Women Self Help Groups** and functioning of **local self government**.
 - She is often invited to be a member on interview panels for appointment of new faculty at various **Government Colleges**, at **Goa University and GPSC (Goa Public Service Commission)**.
 - She has been on committees for drafting of the syllabus for UG courses in the subject of **Political Science and a member of Board of Studies** for a term of three years (2012-1015).
 - She has been on **FRC and DRC** committees of the **Goa University** for guiding the Ph.D. students in the subject of Political Science.
- i. She is an **External Examiner** for M.Phil/Ph.D. theses for **Goa, Solapur, Amravati, Nagpur and Kolhapur University**. Following theses are evaluated:

Name	Topic	University & Year
Smt. V.A. Satpute	'Contribution of Shankarrao Dev to Politics in Maharashtra'	Shivaji University, Kolhapur, 2015.
Shri Ganesh P. Thakre,	Critical Analysis of India's Foreign Policy with special reference to Prime Minister Manmohan Singh's Period,	Amravati University, March 2014.
Chougule M.D	India Sri Lanka Relations: with special reference to Ethnic Problem,	Solapur University, Sep/Oct. 2013
Shri Rashtrapal Shankar Janavir,	Contribution of Women from Vidharbha in Indian Freedom Struggle,	Nagpur University, 2012
Shri Eknath Sopanrao Surve	Analytical study of the role of leadership in caste politics through Panchayat Raj Institutions in Washim District	Nagpur University, 2012.

- She Delivered sessions at
 - 1) **Two months Certificate Course** for the **Tourist Guides** from September to November 2013 at **Goa Institute of Rural Development and Administration, Old Goa** on various aspects of Indian Political System.
 - 2) Three day training programme on **Gender Sensitization** on 12-12-2013 at **GIRDA, on Empowerment and Gender Equality at Grassroots"**
 - 2) **Refresher Course in Political Science** on 9-08-2014 at Academic Staff College, Goa University on the topics '**Political representation and empowerment of Women**' and '**Experiences at Gram Sabhas and Grassroots Empowerment**' respectively
 - 3) **92nd Orientation Course** organized by **UGC Academic Staff College, Goa University** on 9/6/2015 on topic '**Importance of Panchayati Raj and role of Gram Sabhas**'.

- **Street plays and Rallies:** The students organize rallies and perform street plays for the populace of Marcela. The department has organized rallies and street plays on voters' rights, and on gender sensitization.

35. SWOC analysis of the department and Future plans

a) Strengths:

- The biggest strength of the department is the student teacher relations. The students and teachers share a very good rapport. The students confide in their teachers, ask for guidance and advise and this creates a congenial atmosphere for teaching-learning.

b) Weaknesses:

- The department is one person department. There is only one regular teacher in this department, and this limits the scope of undertaking various activities in the department.
- Though the students are willing to learn, most of the students come from weak socio-economic background, as such the quality of education suffers. Some of them are first time learners in their family.
- The department is not recognized as Research Centre.

c) Opportunities:

- The department has a scope for starting six units in Political Science for Sem. V/VI.
- The Department also has scope to start interdisciplinary courses like Human Rights, Journalism, Gender and empowerment, Grassroots governance etc.
- The department has scope for getting recognized as a Research centre.

d) Challenges:

The major challenge is that the department cannot promise the students job placements after graduation.

Future Plans:

- The Department aspires to promote quality research work, both from the teachers as well as the students.
- To get recognized as a Research Centre.
- Invite eminent personalities to address the students.
- Organize state, national and international workshops/seminars on relevant and contemporary issues in Political Science.

EVALUATIVE REPORT OF THE DEPARTMENT

GEOGRAPHY DEPARTMENT

1. Name of the Department: **Geography**
2. Year of establishment: **1989**
3. Names of programmes offered (UG, PG, M. Phil., Ph. D., Integrated Masters; Integrated Ph. D., D. Sc., D. Litt., etc.):

Name of the Programme offered	Faculty and Degree
UG	B. A.
	B. Sc.
	B. Com

4. Names of Interdisciplinary programmes and departments/Units involved:

Interdisciplinary Subjects at UG Level	UG Programmes
Population Geography, and.	B. A. B. Sc.
Tourism Geography	B. A.
Environmental Studies/Science	B. A. B. Sc. B. Com.

5. Annual/Semester/Choice Based Credit System (programme wise):

UG Programmes	Examination System
B. A./ B. Sc./ B. Com.	Semester

6. Participation of the department in the courses offered by other departments: **Not Applicable.**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **NIL.**
8. Details of the courses/programmes discontinued (if any) with reason:**Nil/ Not Applicable.**

9. Number of teaching posts:

Posts	Sanctioned	Filled
Associate Professors	02	02
Asst. Professors	02	02 (Contract Basis)

10. Faculty profile with name, qualification, designation, area of specialization (D. Sc. / D. Litt. / Ph. D. / M. Phil.)

Name	Qualification	Designation	Specialization	No. of years of Experience	No of Ph.D. students guided for the last 4 years
Dr. Prabir K. Rath	C. P. S., M. Phil, Ph. D.	Assoc. Prof.	Regional Development and Planning Tourism Geog. Pop. Studies	27 years	Nil
Dr. Pravina Kerkar	Ph. D.	Assoc. Prof.	Geomorphology Cognitive Mapping	22 years	Nil
Ms. Sapna Pandharmise	M. A., B. Ed.	Assistant Professor	General Geography	02 years	Nil
Ms. Supriya Gaonkar	M. A., B. Ed.	Assistant Professor	Geomorphology	03 years	Nil

11. List of senior Visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme-wise) by temporary faculty:

The complete workload is being handled by 2 Full Time Associate Professors and two Assistant Professors on contact basis. The following table gives the details of the workload handled by the Assistant Professors on Contract basis.

CLASSES	Theory	Practicals
B. A.	34%	34%
B. Com.	100%	Nil
B. Sc.	100%	Nil

13. Student- Teacher Ratio (Programme wise):

Classes	2015-16	2014-15	2013-14	2012-13	2011-12
B. A.	35:1	30:1	34:1	22:1	19:1
B. Com.	45: 1	59:1	56:1	53:1	56:1
B. Sc.	70:1	67:1	64:1	66:1	58:1

14. Number of academic support staff (technical) and administrative staff sanctioned and filled: **Nil**

15. Qualification of the teaching faculty D.Sc./D.Litt./Ph.D./M.Phil./P.G.:

Name	Qualification
Dr. Prabir K. Rath	M.A., CPS, M. Phil., Ph. D.
Dr. Pravina Kerkar	M.A., Ph. D.
Ms. Sapna Pandharmise	M. A.
Ms. Supriya G. Gaonkar	M. A.

16. Number of faculty with ongoing projects from a) National b)International funding agencies and grants received: **Nil / Not Applicable.**

17. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.and total grants received: **Not Applicable / Nil**

18. Research Centre/ Facility recognized by the University: **No.**

19. Publications:

- a. Number of papers published in peer reviewed journals (national / international) by faculty and Students:

Dr.Prabir K. Rath: Journals: 10 and Proceedings: 07.

- Rath, P. K., "Eco Tourism Potentials in Goa: Some Lessons for M. P." in ISBN Book No. 978-81-7487-890-8 First Edition, 2015 titled, Eco Tourism: Principles and Practices edt. Atindra Singh Tomar published by Radha Publications, New Delhi-2, India, pp. 12-29.**
- Rath, P. K. "Tourism Potentials and Problems in Western Ghats Region" in ISBN Book No. 978-81-931583-0-2 titled, Western Ghats: The World Heritage (Proceedings of ICSSR sponsored two days National Seminar by Dept. of Geography, NSS College of Arts, Commerce and Science, Dodamarg, Sindhudurg, Maharashtra, India edt. By Patil, V. A. Gathade, P. D. and Jadhav, S. N., 2015 published by**

the College, Printed at Impressions, Belgaum, Karnataka. India, p.p. 8-18.

3. **Rath, P. K., "Good Governance Measures, Initiatives and Achievements in Goa: A Geospatial Appraisal"** in ISBN Book No. 978-93-84193-36-2 titled, **Geospatial Technologies for Resources Evaluation and Management** ed. By V. Saravanabavan, Dec. 2015, Published by Jayalakshmi Publications, Printed at Laser Point, Madurai, T. N. India, p.p. 8-18 (Proceedings of the UGC-SAP-DRS Phase II sponsored National Seminar on Geospatial Technologies for Resources Evaluation and Environment (GEOTREE-2015) organized by and held at the Dept. of Geography, Madurai Kamraj University (MKU- Univ. with Potential for Excellence) Madurai, Tamil Nadu, during 13th& 14th August 2015).
4. **Rath, P. K., "Some Issues and Challenges of Population, Environment and Sustainable Development in India"** in ISBN book titled Population, Environment and Sustainable Development in India by RPD College, Belgaum, Karnataka.
5. **Rath, P. K. "Prospects and Problems of Tourism in Ponda Taluka"**, Goa Geographer Vol. X, Dec., 2013, The ISSN Journal was released in April, 2015.
6. **Rath, P. K., "Tourism"**, in the research publication volume, namely "Research Spectrum" by Govt. P. G. College, Datia, M. P.
7. **Rath, P. K. jointly with Rana, H. R., "Tourism Development in Himachal Pradesh"** in "The Goa Geographer, Vol. IX, 2012", an ISSN National Research Journal. The Journal was released in Dec., 2013.
8. **Rath, P. K. and Rath, Seema P. titled, "Climate Change and Occupation with reference to Agriculture in India"** in "The Goa Geographer, Vol. VII, 2010", ISSN based National Research Journal. The Journal was released in Oct., 2011.
9. **Rath, P. K., jointly with Renzilla Fernandes and Manjira Roy, "Land use-Land cover changes in Shiroda Village of Goa"** in ISSN based National Research Journal namely, "Goa Geographer, Vol. VI, 2009". The Journal was released in Dec., 2010.
10. **Rath P. K., "Potentials for Ecotourism in Goa"**, The Goa Geographer, Vol. 4, December 2007, a Research Journal of the Geographers' Association, Goa (GAG).
11. **Rath, P. K., "Role of Institutions in Rural Development of Goa"**, The Goa Geographer, Vol. 3, No.3, December 2006.
12. **Rath, P. K. "Watershed Management: A Sustainable Approach to Development"** in **Rath, P. K. et al Ed., "Population and Environment: Issues & Sustainable Development"**, a Proceeding Volume of International Conference on "Contemporary Population &

Environmental Issues and their Sustainable Development", 2006. pp. 227-31.

13. **Rath, P. K., "Basic Planning Measures for Integrated Development of Goa",**The Goa Geographer, Vol. 2, No.2, December, 2004, a Research Journal of the Geographers' Association, Goa (GAG), pp. 42-54.
14. **Rath, P. K., "Conceptualisation of Regional Development in Goa",** The Goa Geographers, Ist Issue, March, 2002, Journal of Geographers Association, Goa (GAG), Margao, pp. 31-43.
15. **Rath, P. K. "Incidence of Insects Related to Agricultural Crops in Goa",** H. R. Pajni, P. K. Tewari & Deepinderjit Kaur ed. "Insects and Environment", **Proceedings of the National Seminar on Insects and Environment",** Society of Environmental Scientists (SES), Chandigarh, September 18-20, 1997, pp.29-35.
16. **Rath, P. K., "Process of Urbanisation in Orissa",** D. K. Singh et al edited, "Spatial Dimensions of Geography", **Proceedings of The XV Annual Conference of National Association of Geographers, India (NAGI),** Sept., 1995, pp. 204-207.
17. **Rath, P. K., "Some Aspects of the Process of Urbanization in Orissa",****Proceedings of the 80th Session of the Indian Science Congress Association (ISCA), Goa, 1993, Part IV, pp. 85-88.**

b. Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): **Nil.**

c. Monographs: **Nil**

d. Chapters in Books: **Nil**

e. Edited Books:

Dr. Prabir K. Rath: 01

Rath, P. K., eds. "Population, Development and Environment", GAG publication, Goa, April, 2006.

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

a) National Committees:

Dr. Prabir K. Rath: Life member of the following 14 National Professional Bodies.

1. National Association of Geographers, India (**NAGI**), **Delhi.**

2. Regional Science Association India (**RSAI**), **Kolkata.**

3. Institute of Indian Geographers, (IIG), Pune.
4. Geographers' Association Goa, (GAG), Marcel, Goa.
5. Indian Science Congress Association (ISCA), Kolkata.
6. Punjab Geographers Association (PGA), Patiala.
7. Association of Population Geographers of India (APGI), Chandigarh.
8. Eastern Geographical Society (EGS), Bhubaneswar.
9. Environmental Scientists of India (ESI), Chandigarh.
10. Deccan Geographers Society (DGS), Pune.
11. Indian Association for the Study of Population (IASP), New Delhi.
12. Indian Society of Remote Sensing (ISRS), Dehradun.
13. Bombay Geographers Society / Association (BGA), Mumbai.
14. Indian Geographical Society (IGS), Kolkata.
15. Indian National Cartographic Association (INCA), Hyderabad.

Executive Member of

1. National Association of Geographers, India (NAGI), Delhi.
2. Geographers' Association Goa, (GAG), Marcel, Goa.

Dr. Pravina Kerkar:

Life members of the following National Professional Bodies.

1. Bombay Geographers Society / Association (BGA), Mumbai.
2. Deccan Geographers Society (DGS), Pune.
3. Geographers' Association Goa, (GAG), Marcel, Goa.

b) International committees: **Dr. Prabir K. Rath: 01**

Executive body member of International Geographical Union IGU
Commission on Regional Planning, U. K.

c) Editorial Boards:**Dr. Prabir K. Rath: 03**

1. **The Goa Geographers**, working editor of ISSN journal for 12 issues till date.
2. **Maharashtra Bhoogol Parishad**, member Editorial Board ISSN Journal.
3. **Punjab Geographers**, Patiala, member Editorial Board ISSN Journal.

22. Student projects

- a. Percentage of students who have done in-house projects including interdepartmental/Programme: **100%**.
All the students of semester V & VI are offered project paper of 100 marks and evaluated by internal and external examiner.

- b. Percentage of students placed for projects in organizations outside the institutions i.e. in Research Laboratories / Industry / Other agencies: **Nil.**
23. Awards / recognitions received at the national and international level by faculty and Students: **Nil.**
24. List the eminent academicians and scientists/visitors to the department:
1. **A contingent of Delegates** comprising Staff and Students from **Sri Lankan University** under the leadership of **Dr. Sunethra** visited the Department and interacted with the Staff and Students of the Department during 2013-14, 2014-15 and 2015-16.
 2. A Delegation from the PG Dept. of Geography, **Mizoram Central University** under the leadership of **Dr. Benjamin** visited the Department and interacted with the Staff and Students of the Department during February 2016.
 3. **Ms. Cheryl Dias**, Course Coordinator for Tourism, **Dempo College of Economics**, Panaji, February 2016.
 4. **Dr. Nandakumar N. Sawant**, Principal, **Smt. Parvatibai Chowgule College**, Margao, Goa visited the College and delivered orientation lecture on the **TYBA Geography Project** in July 2016
25. Seminars/Conferences/Workshops organized and the source of funding (national / international): **Nil**
26. Student profile programme / Coursewise:

Name of the Course	Year	Programme	Applications Received	Applications Selected	Enrolled		Pass Percentage	
					M	F	Sem V	Sem VI
Under graduate Bachelor of Arts in Geography	2010	FYBA	15	15	02	13	100	100
	-	SYBA	07	07	Nil	07	100	100
	2011	TYBA	09	09	02	07	88	100
	2011-2012	FYBA	22	22	05	17	77	86
		SYBA	13	13	02	11	100	100
		TYBA	03	03	Nil	03	100	100
	2012-2013	FYBA	17	17	05	12	100	100
		SYBA	22	22	05	17	90	100
		TYBA	06	06	02	04	100	100
	2013	FYBA	43	43	12	31	93	100
		SYBA	13	13	04	09	100	100
	2014	TYBA	12	12	03	09	75	100
	2014	FYBA	44	44	12	32	72	77
		SYBA	37			09	28	100

	2015	TYBA	07	07	02	05	85	100
	2015	FYBA	53	53	17	36	100	
	-	SYBA	29	29	09	20	100	
	2016	TYBA	17	17	06	11	88	

27. Diversity of Students:

Name of the Course	Years	% of students from same state	% of students from other states	% of students from abroad
Under graduate Bachelor of Arts in Geography	2010 - 2011	100	NIL	NIL
	2011 - 2012	100	NIL	NIL
	2012 - 2013	100	NIL	NIL
	2013 - 2014	100	NIL	NIL
	2014 - 2015	100	NIL	NIL
	2015 - 2016	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: Nil.

However, some students have cleared National Level Banking Examinations, State level Examinations and Entry level entrance examinations for PG admissions.

29. Student progression:

Yearly Enrolment from UG to PG	Percentage Enrolment
2010 - 2011	Nil
2011 - 2012	33%
2012 - 2013	16%
2013 - 2014	33%
2014 - 2015	28%
2015 - 2016	33%

Kindly note that the progression beyond P. G. is Nil.

30. Details of infrastructural facilities

a) Library:

Details	Approximate Nos.
Text Books	316
Reference Books	310
Magazines	03

b) Internet facilities for staff and students:

Wired internet facility for students and staff in Geography laboratory.

- c) Class rooms with ICT facility:
One LCD Projector and one computer with internet facilities.
- d) laboratories:
**Geography Laboratory (01) in the Third Floor of the Science wing.
Lab Area: 32 Sq. Mts.**

31. **Number of students receiving financial assistance from college, university, government or other agencies:**
EBC (Economically Backward Class), Post Matric Scholarship for SC and ST students, Fee exemption and Merit scholarship from Govt. of India, Govt. of Goa and Charitable Organizations like Syngenta Ltd., MFOG (Mineral Foundation of Goa. The approximate number of students from the Department receiving such assistance ranges from 2 to 5 per academic year over last 10 years. Two students namely Ms. Lyiana Fernandes and Yagant Borkar were granted Physical Disability assistance due to problems of Eyes and Hands.

The following table reflects the beneficiaries for 2016-17.

Class	No of students
FYBA	11
SYBA	5
TYB A	6

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts:
- Several Field Trips and Exposure visits are organized to various places of natural, socio-cultural, touristic, industrial interests from time to time to provide field orientations and exposure within the State, e.g. **Selaulim, Anjuna, Amthane dams, Chorla Ghat, Anmod Ghat, Devil's Canyon, Savari Falls, Verna Industrial Area, Mormugao Port, Sada Beach, Uddo Spring, Kesarval spring**, etc.
 - Study tours are also organized by the College and the Department to far off places like **Sikkim, Darjeeling, Jammu, Manali, Jaisalmer, Bikaner, Coorg, Mangalore**, etc. at least once a year to provide them an opportunity to experience variation in all geographical phenomena.
 - Special Lectures are also conducted by visiting Geographers and other academicians and professionals.

33. Teaching methods adopted to improve student learning:

The department through its teaching staff puts all efforts to provide ample opportunity to make the students effectively learn the ethics of learning. It is a combination of the following:

- Conventional Lecture method using **Chalk and Board**.
- Making **Presentations using LCD Projectors** by the staff and the students.
- Teachers also motivate the students to make presentations through **Posters and Wall papers**.
- **Group Discussions** are held to weed out the fear from the minds of the students.
- Conducting **Household Surveys** form a part of completing the **TYBA Geography projects**.
- **Field trip Reports and Study tour Reports** are prepared under the guidance of the accompanying teachers and shared.
- Assignment topics are never imposed but selected or chosen by the students.
- Students are encouraged to offer **draft question papers** covering the whole or appropriate syllabus.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- The faculty members of the department have been associated with a **National Geographers Professional body** (Geographers' Association, Goa-GAG), which conducts several programmes to make geography teaching effective and interesting.
- Several workshops, seminars are conducted and students of **Schools, Higher Secondary Schools** are invited to participate.
- Teachers are encouraged to contact the department for **teaching aids on borrowing scheme**.
- As members of BoS, the faculty members keep addressing the day-to-day subject related difficulties.
- Awareness regarding **Resource conservation** is done keeping Dr. P. K. Rath as the example in saving stationary, attempt to save power of the college and keeping the surrounding clean.

35. SWOC analysis of the department and future plans:

a) **Strenghts:**

- Highly Qualified, Reputed and motivated, experienced, permanent faculty members with Ph. D. qualification, specialized in different branches of Geography with a readiness to do anything and everything for the intellectual growth of the students.

- Excellent results at examinations conducted by the university and the College.
- Organization of at least one major Study tour, several field visits, exposure visits and field trips for students.
- Faculty members have been publishing research papers, presenting papers at national, international and state level Seminars, conferences as delegates and resource persons.
- Dr. P. K. Rath has been evaluating Ph. D. Thesis of around 9 Universities in India, namely Pune; RTM Nagpur, SRTMU-Nanded, Rajasthan, Amravati, Shivaji Univ-Kolhapur, BAMU-Aurangabad, TMV-Pune, NMU-Jalgaon. So far evaluated more than 30 Ph. D. thesis of these Universities.
- The Faculty members are invited by various Universities and Colleges at National level to deliver Key note address, talks at various Seminars, Conferences.

b) Weaknesses:

- Not having a Professor to start an effective Govt. funded PG Department and a Research Centre. Not having full quota of regular teaching staff.
- Inadequate departmental sub staff like Lab Assistant, Lab Attendant.
- Inadequate space and facility for research work e.g. Internet access, RS GIS soft wares, Scanner and Printer.
- No Specialization in the subject even at UG level due to fluctuation in the number of students at TYBA level (it has ranged from 3 to 23 over last 25 years). Moreover, majority students of the hinterland do not wish to pursue PG courses. Non seriousness of large section of the students for co-curricular programmes.
- Inadequate Project or Publication due to the load of dedicated teaching.

c) Opportunities:

- Introduction of govt. funded add on courses on job guaranteed courses.
- Effective implementation of practical approach in teaching learning.
- To organize National and State level conferences/seminars/workshops.
- To orient teachers and students to write, publish and present research papers.
- To prepare student centric publications reflecting rural activities and challenges.

d) Challenges:

- Motivating students to compete at national level.
- Keeping the students attached to serious academic work.

- Motivate students to pursue higher education in reputed institutes of learning and undertake research oriented career.
- Keeping the students focused on learning and giving global or national level exposure.
- Many students are first generation learner belonging to poorer section of the society with rural background and having a large no. of distractions.

Future plans of the department:

- Continue to provide effective, ethical UG level geography teaching learning.
- Strive to undertake at least some minor research projects and attempt to prepare major research project proposal.
- Train students to answer competitive exams at national and state level.
- To organize some Govt. funded skill-oriented programmes and courses such as tourist guide, field survey etc.

Evaluative Report of the Department

Department of Psychology

1. Name of the department: **Psychology**
2. Year of Establishment: **1990**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):
Under Graduate Courses for Arts and Commerce: B.A. in Psychology
4. Names of Interdisciplinary courses and the departments/units involved
 - **Gender Studies: Department of Psychology**
 - **Self Development: Department of Psychology**
5. Annual/ semester/choice based credit system (programme wise):
B.A. Programme
B.A. Semester I and II: Fundamentals of Psychology-Paper I and II
B.A. Semester III : Social Psychology-Paper III
B.A. Semester IV : Psychology of Adolescence - Paper IV
B.A. Semester V : Statistics - Paper V
Health Psychology - Paper VI
Abnormal Psychology I - Paper VII
B.A. Semester VI : Criminal Psychology - Paper XII
Organizational Behaviour -Paper XIII
Abnormal Psychology II - Paper XIV
6. Participation of the department in the courses offered by other department : **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions etc: **Nil**
8. Details of courses/programmes discontinued (if any) with reasons: **Nil**
9. Number of Teaching posts:

	Sanctioned	Filled
Associate Professors	1	1
Assistant Professors	1 Contract Basis 1 Lecture basis	1 Contract Basis 1 Lecture basis

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D students guided for the last 4 years
Dr. Mahesh Pai	Ph.D.	Associate Professor	Industrial Psychology	25 Years	NIL
Mr. Aresh Naik	M.A.	Assistant Professor	Industrial Psychology	01 years	NIL
Ms. Smita Sawant	M.A.	Assistant Professor	Human Resource	NIL	NIL

11. List of senior visiting faculty:
- **Prof. Newman Fernandes**, Dean, SHIATS University, Allahabad.
 - **Dr. B. A. Gomes**, Ex Principal, Govt College, Quepem.
 - **Dr. Aldina Gomes**, Head, Dept of Psychology, Carmel College.
 - **Mrs. Kavita Borkar**, Head, Dept of Psychology, Chowgule College.
 - **Mr. Pravin Sabnis**, Life Coach, Unlearning Unlimited.
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty: **84.8%**
13. Student -Teacher Ratio (programme wise): **Arts: 42:1**
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**
15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ MPhil./ PG.

Name	Qualification
Dr. Mahesh Pai	M.A., Ph.D.
Mr. Aresh Naik	M.A.
Ms. Smita Sawant	M.A.

16. Number of faculty with ongoing projects from a) National b)

International funding agencies and grants received: **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **Nil**
18. Research Centre /facility recognized by the University: **Affiliated to Goa University.**
19. Publications (2010 to 2015):
 - a) Publication per faculty: **Dr Mahesh Pai - 11**
 1. Dr Christina De Souza and **Dr Mahesh Pai** (2010), **Climate Change: Measures of Mitigation and Implications of Commitments to Climate Change Policy for India**, *University News (Special Issue)*, June, Vol. 48 No. 24, Pgs. 131-134, ISSN 0566-2257.
 2. Dr Christina De Souza and **Dr Mahesh Pai** (2010), **Microfinance: The Pathway Towards Economic and Social Empowerment of Women in Goa**, in *Bhruti Journal of Business and Finance*, Sri Sri institute of Management Studies (SSIMS), ISSN 25321-7685.
 3. Dr Christina De Souza and **Dr Mahesh Pai** (2011), **Universal Values in Higher Education in the Era of Globalization**, *Journal of Education and Development*, December, Vol. 1, No. 2, Pgs. 285-297, ISSN 2248-9703.
 4. Dr Christina De Souza and **Dr Mahesh Pai** (2012), **Micro-Finance: A Research Study of the Economic and Social Empowerment of Rural Women in Goa**, *Arthshastra Indian Journal of Economics and Research*, 2012, July-August, Vol. 1 No. 2, Pgs: 4-14, ISSN 2278-1811.
 5. Dr Christina De Souza and **Dr Mahesh Pai**(2012) **Stress and Coping Styles: A Comparative Study of Male and Female Students in a Government College in Goa**, in *Journal of Education and Development*, 2012, June, Vol. 2, No. 13, June, Pgs. 270-278, ISSN 2248 – 9703.
 6. Dr Christina De Souza and **Dr Mahesh Pai** (2013), **Corporate Social Responsibility: A Study of the Hospitality Industry in Goa**, *Prabandhan: Indian Journal of Management*, August, Vol. 6, No. 8, Pgs. 5-13, ISSN 0975-2854
 7. Dr Christina De Souza and **Dr Mahesh Pai** (2013), **Connectedness and Life Satisfaction Among College Students**, *Journal of Education and Development*, December, Vol. 3, No.6, Pgs 28-35, ISSN 2248-9703
 8. Dr Christina De Souza and **Dr Mahesh Pai** (2014), **The Higher Education Policy: Will It Address the Challenges in Higher Education in India**, *University News*, 2014, March 31- April 06, Vol. 52, No. 13, Pgs. 15-19, ISSN 0566-2257
 9. Dr Christina De Souza and **Dr Mahesh Pai** (2015), **Job Satisfaction of Employees in Pharmaceutical Companies in Goa**, *Bhruti Journal of Business and Finance*, Vol. 4, May 2015, pp131-143, ISSN 25321-7685.
 10. Dr Christina De Souza and **Dr Mahesh Pai** (2015-2016), **Issues of Tourism and the Model for Sustainable Tourism in Goa**, *Ideas – A*

Compilation A Supplementary Edition of Papers on Sustainable Tourism Seva Mandal Education Society's Dr. Bhanuben Mahendra Nanavati College of Home Science and Smt. Kamlaben Gambhirchand Shah Department of Computer Applications, Vol 8 Pgs: 172-179, ISSN 2320-0162

11. Dr Christina De Souza and **Dr Mahesh Pai** (2015-2016), **Migration in Goa: A Study of Workers in the Construction Industry in Goa**, *Gyana*, 2015-2016, Vol XI, Issue 1, Pgs. 52-70, ISSN: No. 2249-2518.

* Chapters in books: 5

1. Dr Christina De Souza and **Dr Mahesh Pai** (2011), **Public Private Partnership in Higher Education in India: An Introspection**, *Quality Concern in Higher Education*, Ed. B.T. Lawani and Jagdish Jadhav, Pub: Centre for Social Research and Development, Pune, ISBN: 978-81-910455-1-3
2. Dr Christina De Souza and **Dr Mahesh Pai** (2013), **Empowerment of Women in Goa: Are Self Help Groups the Panacea? Emerging Issues of Women Empowerment** Ed: Jayanta Mete and Ajit Mondal Pub: Kunal Books, New Delhi, ISBN No. 978-93-82420-20-0
3. Dr Christina De Souza and **Dr Mahesh Pai** (2014), **Social Inclusiveness of the Health Sector in India: Issues and Challenges**, *Socio-Economic Inequities and the Health Sector: Issues and Perspectives*, Ed. Savio Falleiro and Afonso Botelho, Pub: Cinnamon Teal Publishing, Margao, ISBN 978-93-83175-68-0
4. Dr Christina De Souza and **Dr Mahesh Pai** (2015), **Women in the Unorganized Sector: Investigating the Social Protection of Vegetable Vendors in Goa**, Ed. Dr Daisy John Domnic Pub: Broadway Publishing House, Panaji, ISBN NO. 978-93-84298-19-7
5. Dr Christina De Souza and **Dr Mahesh Pai** (2016), **Unorganized Sector: the Social Protection of Motorcycle Taxi Pilots in Goa**, *Goa: Looking Back Looking Forward*, Ed. Dr Brijpal Singh Gahloth, Dr Elizabeth Henriques and Ms. Deepa Prajith, Pub: Broadway Publishing House, Panaji, ISBN No. 978-93-84298-34-0.

* Number of papers published in peer reviewed journals (national/international) by faculty and students: 11

20. Areas of consultancy and income generated: Nil
21. Faculty as members in
 - a) National committees
 - b) International Committees
 - c) Editorial Boards:

Dr. Mahesh Pai, Associate Professor of Psychology

- Chairman of the Board of Studies in Psychology from 2008-2012
- Member of Board of Studies in Psychology of Parvatibai Chowgule College of Arts and Science (Autonomous) from 2014 till date
- Chairman of the Board of Studies in M.A. Wellness Counseling from 29th March 2016 till date

Life Member of Professional Organisations:

- Bombay Psychology Association (BPA)
- Indian Association for Mental Health (IAMH).
- Goa Psychology Association (GPA)

22. Student projects
- a. Percentage of students who have done in-house projects including inter departmental/programme: **100 %**
 - b. Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

For the purpose of collection of data for project work students have interacted with Institutions and NGOs dealing with psychological issues.

23. Awards / Recognitions received by faculty and students: **Nil**
24. List of eminent academicians and scientists / visitors to the department:
- **Prof. Newman Fernandes, Dean, SHIATS University, Allahabad**
 - **Dr. B. A. Gomes, Ex Principal, Govt College, Quepem**
 - **Dr. Aldina Gomes, Head, Dept of Psychology, Carmel College**
 - **Mrs. Kavita Borkar, Head, Dept of Psychology, Chowgule College**
 - **Mr. Pravin Sabnis, Life Coach, Unlearning Unlimited**
 -

25. Seminars/ Conferences/Workshops organized & the source of funding

Programmes	Title	Date	Funding Agency
One Day State level Workshop	Work Vision: Developing Employability Skills	6th August 2010	CII - Young Indians, Goa Chapter
Two-Days State Level Seminar	Stress and Coping among Youth	17th & 18th February 2012	ICSSR, Mumbai

Two-Days State level Workshop	Campus Corporate	to	16th and 17th January 2015	ICSSR, Mumbai and Rotary Club of Panaji Riviera
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26. Student profile programme/course wise:

Name of the Course	Application selected		Enrolled	Pass Percentage
	Male	Female		
B.A. Psychology	1	24	25	100%

27. Diversity of Students

Name of the course	% of the students from the same state	% of students from other state	% of students from abroad
B. A. Psychology	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **Nil**

29. Student progression

Student Progression	Against % enrolled
UG to PG	30%
PG to M.Phil	---
PG to Ph.D.	---
Ph,D. to Post- Doctoral	---
Employed Campus selection	---
Other than campus recruitment	60%
Entrepreneurship/Self-employment	5%

30. Details of Infrastructural facilities

- Library: The department has 475 books, Journals and Multidisciplinary Journals**
- Internet facilities for Staff & Students: Available**
- Class rooms with ICT facility: Available**
- Laboratories: Available**

31. Number of students receiving financial assistance from college, university, government or other agencies

Academic Year 2015-16	
Category	Number of students
OBC/SC	--
ST	4
Merit based	1

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts
Student enrichment programmes are regularly held for the students. Some such programmes conducted are:
- Seminar on *Stress and Coping among Youth* on the 17th & 18th of February 2012 in partnership with the **Indian Council of Social Science Research (ICSSR) and the Rotary Club of Panaji Riviera.**
 - **Mr. Nilesh Amonkar** as Guest Speaker on *Mantras of Success* on 8th August 2014
 - Workshop on *Campus to Corporate* on the 16th and 17th of January 2015 funded by **ICSSR, Mumbai and Rotary Club of Panaji Riviera.**
33. Teaching methods adopted to improve student learning
Use of LCD, Regular tests, assistance in reference work, wall papers on contemporary psychological issues, role plays, workshops, field trips and guest lectures.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
Students participate in N.S.S. activities, community service, conduct surveys.
35. SWOC analysis of the department and Future plans
- a) **Strengths:**
Qualified staff
Enthusiastic students
Eagerness to learn among the students
 - b) **Weakness:**
Lack of exposure among the students to the outside world
 - c) **Opportunities:**
To start six units in Psychology
To start a Post-Graduate Department of Psychology
 - d) **Challenges:**
To inculcate among students an empathetic approach
To inculcate research orientation among students

Future Plans

Six units in Psychology
Research Centre in Psychology
Post graduate course in Psychology
Skill based and short term courses in Psychology

Evaluative Report of the Department

Department of Economics

1. Name of the department: **Department of Economics**
2. Year of Establishment: **1989**
3. Names of Programme/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

Under Graduate Courses:

- 1) B.A. in Economics
- 2) B.Com

4. Names of Interdisciplinary courses and the departments/units involved
B. Com. Programme

B.Com. Semester I to VI

Students are learning

- Managerial Economics in B. Com. Semesters I and II
- Indian financial and fiscal system in B. Com. Semester III
- Economics of Resources in B. Com. Semester IV
- International Economics in B. Com. Semester V
- Issues of the Indian Economy in B. Com. Semester VI

5. Annual/semester/choice based credit system (programme wise):

B.A. Programme: Semester

B.Com. Programme: Semester

6. Participation of the department in the courses offered by other departments:

Managerial Economics: Department of Commerce

Indian Financial and Fiscal System: Department of Commerce

Economics of Resources: Department of Commerce

International Economics: Department of Commerce

Issues of the Indian Economy: Department of Commerce

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **N. A.**

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts

	Sanctioned	Filled
Associate Professors	02	02
Assistant Professors	01(Lecture Basis)	01(Lecture Basis)

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D students Registered for last five years:
Dr. Christina De Souza	M.A., Ph.D., B Ed.	Associate Professor of Economics	Labour Economics	26 years	Nil
Dr. Seema Rath	M.A., Ph.D., B Ed.	Associate Professor of Economics	App. & Analytical Economics	29 years	One student
Ms.Heena Gaude	M.A., B. Ed., and SET	Assistant Professor of Economics		01year	Nil

11. List of senior visiting faculty:

Sr No	Resource Person	Designation
1.	Dr. K. G. Hiremath	Associate Professor of Botany, Dhempe College, Miramar
2.	Mr. Minguel Braganza	President, Botanical Society, Goa
3.	Mr. Nilesh Amonkar	Corporate Manager
4.	Mr. Karan Manaral	Social Entrepreneur/Environmentalism
5.	Ms. Rodha Antao	Assistant Professor in Nutrition, Goa College of Home Science, Campal
6.	Mrs. Pradnya P. Desai	Branch Manager, State Bank of India, Marcela Branch, Marcela
7.	Mr Pravin Sabnis	Corporate Trainer
8.	Ms. Sonya Sirsat	CII Young Indians, Goa Chapter
9.	Mr. Jesus Reibeiro	Corporate Trainer, Panaji

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty

B.A : 22 %

B. Com : 48 %

13. Student -Teacher Ratio (programme wise):

B. A : 30:1

B. Com : 111:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

Name	Qualification
Dr. Christina De Souza	M.A., Ph.D.
Dr. Seema Rath	M.A., Ph.D.
Ms. Heena Gaude	M.A., B. Ed.

16. Number of faculty with ongoing projects from a) National
b)International funding agencies and grants received:01

Research Project	Title	Funding agency	Amount sanctioned	Year of Sanction
Minor (Completed)	Unorganized Sector: Social Protection of Vegetable Vendors in Goa	ICSSR Western Regional Centre- Mumbai	₹60,000/-	2014-2015

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Research Project	Title	Funding agency	Amount sanctioned	Year of Sanctioning
Minor (Completed)	Unorganized Sector: Social Protection of Vegetable Vendors in Goa	ICSSR Western Regional Centre- Mumbai	₹60,000/-	2014-2015
Monograph Writing (Completed)	Self Help Groups in Goa: Towards the Social and Economic Empowerment of Women in Goa	ICSSR Western Regional Centre, Mumbai	₹25,000/-	2011-2012

18. Research Centre /facility recognized by the University: **NIL**

19. Publications:

a) Publication per faculty:

Dr. Christina De Souza, Associate Professor of Economics-15

1. **De Souza Christina** and Pai Mahesh (2010), Climate Change: Measures of Mitigation and Implications of Commitments to Climate Change Policy for India, *University News (Special Issue)*, June, Vol. 48 No. 24, Pgs. 131-134, ISSN 0566-2257.
2. **De Souza Christina** (2010), Decent Work: Towards Ensuring the Well Being of Workers, *Khaj- An Interdisciplinary Research Journal*, January, Vol. 3 No. 3, Pgs. 39-47.
3. **De Souza Christina** and Pai Mahesh (2010), Microfinance: The Pathway Towards Economic and Social Empowerment of Women in Goa, in *Bhruti Journal of Business and Finance*, Sri Sri institute of Management Studies (SSIMS), ISSN 25321-7685.
4. **De Souza Christina** and Dr. Silvia Maria de Mendonca e Noronha (2011), Influence of Labour Welfare Activities and Job Satisfaction: A Study of Pharmaceutical Companies in Goa, *The Indian Journal of Labour*, April-June, Vol. 54, No. 2, Pgs. 285-297, ISSN 0971-7927.
5. **De Souza Christina** and Pai Mahesh (2011), Universal Values in Higher Education in the Era of Globalization, *Journal of Education and Development*, December, Vol. 1, No. 2, Pgs. 285-297, ISSN 2248-9703.
6. **De Souza Christina** and Pai Mahesh (2012), Micro-Finance: A Research Study of the Economic and Social Empowerment of Rural Women in Goa, *Arthshastra Indian Journal of Economics and Research*, 2012, July-August, Vol. 1 No.2, Pgs: 4-14, ISSN 2278-1811
7. **De Souza Christina** and Pai Mahesh (2012) Stress and Coping Styles: A Comparative Study of Male and Female Students in a Government College in Goa, in *Journal of Education and Development*, 2012, June, Vol. 2, No. 13, June, Pgs. 270-278, ISSN 2248 - 9703.
8. **De Souza Christina** and Pai Mahesh (2013), Corporate Social Responsibility: A Study of the Hospitality Industry in Goa, *Prabandhan: Indian Journal of Management*, August, Vol. 6, No. 8, Pgs. 5-13, ISSN 0975-2854
9. **De Souza Christina** and Pai Mahesh (2013), Connectedness and Life Satisfaction Among College Students, *Journal of Education and Development*, December, Vol. 3, No.6, Pgs 28-35, ISSN 2248-9703

10. **De Souza Christina** and Pai Mahesh (2014), The Higher Education Policy: Will It Address the Challenges in Higher Education in India, *University News*, 2014, March 31- April 06, Vol. 52, No. 13, Pgs. 15-19, ISSN 0566-2257
11. **De Souza Christina** and Pai Mahesh Job Satisfaction of Employees in Pharmaceutical Companies in Goa, *Bhruti Journal of Business and Finance*, Vol. 4, May 2015, pp131-143, ISSN 25321-7685.
12. **De Souza Christina** and Pai Mahesh (2015-2016), Issues of Tourism and the Model for Sustainable Tourism in Goa, *Ideas – A Compilation A Supplementary Edition of Papers on Sustainable Tourism Seva Mandal Education Societys Dr. Bhanuben Mahendra Nanavati College of Home Science and Smt. Kamlaben Gambhirchand Shah Department of Computer Applications*, Vol 8 Pgs: 172-179, ISSN 2320-0162
13. **De Souza Christina** and Pai Mahesh (2015-2016), Migration in Goa: A Study of Workers in the Construction Industry in Goa, *Gyana*, 2015-2016, Vol XI, Issue 1, Pgs. 52-70, ISSN: No. 2249-2518.
14. **De Souza Christina** (2015), Contingencies in the Unorganized Sector: How Do Women Cope, *Social Sciences: International Research Journal*, Vol. 2, Issue 1, Pgs. 161-166, ISSN: No. 2395-0544
15. **De Souza Christina** and Pai Mahesh (2015), Personal Variables and Job Satisfaction: A Comparative Study of Indian and Multinational Pharmaceutical Companies in Goa. *Quest, The GCC Journal of Multidisciplinary Research*, Vol. II Issue 1, Pgs. 01-15, ISSN No. 23952768.

Research Paper Published in Edited Books - 07

1. **De Souza Christina** and Pai Mahesh (2011), Public Private Partnership in Higher Education in India: An Introspection, *Quality Concern in Higher Education*, Ed. B.T. Lawani and Jagdish Jadhav, Pub: Centre for Social Research and Development, Pune, ISBN: 978-81-910455-1-3
2. **De Souza Christina** (2013), Impact of the Global Financial Crisis on the India Economy an Introspection, *Global Financial Crisis and Vulnerability of the Indian Economy*, Ed: Debasish Mazumdar Pub: Abhijeet Publications, New Delhi, ISBN No. 978-93-5074-102-3
3. **De Souza Christina** and Pai Mahesh (2013), Empowerment of Women in Goa: Are Self Help Groups the Panacea? Emerging Issues of Women Empowerment Ed: Jayanta Mete and Ajit Mondal Pub: Kunal Books, New Delhi, ISBN No.978-93-82420-20-0

4. **De Souza Christina** (2014), Labour Welfare and Job Satisfaction: A Comparative Study of Indian Pharmaceutical Companies and Multinational Pharmaceutical Companies in Goa, *Goan Economy: An Analysis of Select Issues*, 2014 Ed: Prof. Silvia Maria de Mendonca e Noronha, Pub: Broadway Publishing House, Panaji-Goa, ISBN No:978-93-80837-97-0
5. **De Souza Christina** and Dr Mahesh Pai (2014), Social Inclusiveness of the Health Sector in India: Issues and Challenges, *Socio-Economic Inequities and the Health Sector: Issues and Perspectives*, Ed. Savio Falleiro and Afonso Botelho, Pub: Cinnamon Teal Publishing, Margao, ISBN 978-93-83175-68-0
6. **De Souza Christina** and Pai Mahesh (2015), Women in the Unorganized Sector: Investigating the Social Protection of Vegetable Vendors in Goa, Ed. Dr. Daisy John Domnic Pub: Broadway Publishing House, Panaji, ISBN NO. 978-93-84298-19-7
7. **De Souza Christina** and Pai Mahesh (2016), Unorganized Sector: the Social Protection of Motorcycle Taxi Pilots in Goa, *Goa: Looking Back Looking Forward*, Ed. Dr Brijpal Singh Gahloth, Dr Elizabeth Henriques and Ms. Deepa Prajith, Pub: Broadway Publishing House, Panaji, ISBN No. 978-93-84298-34-0

Monograph Writing-01

Dr Christina De Souza Self Help Groups in Goa: Towards the Social and Economic Empowerment of Women in Goa (2011-2012).

Dr Seema Rath, Associate Professor of Economics

Research Publications in Journals -10

1. Tariq M., **Rath S.**, Mushoriwa F & Srinivas S. **Health and Sustainable Development Challenges of the 21st Century: A Comparative Analysis of Salt Reduction Strategies** in *Population Review*, Vol. 55, Number 1, 2016. <http://populationreview.com/>, ISSN: 0032-471X
2. **Rath S.**, Tariq M., Mushoriwa F., Chigumete T., Morobi T., & Srinivas S., **Economics of Non-Communicable Diseases: Case Study of South Africa and India**, *Indian Journal of Pharmacy Practice*, Vol 8, Issue 3, Jul-Sep, 2015. www.ijopp.org, ISSN 0974-8326.
3. Duxbury T., **Rath S.**, Maraj P. & Srinivas S., **Controlling use of Tobacco for Sustainable Development: A Focus on India and South Africa**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun, 2016, ISSN 0974-8326.

4. Marara P., **Rath S.**, Sharma S. & Srinivas S., **Curtailing Unhealthy Consumption of Alcohol for Sustainable Development in India and South Africa**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun, 2016, ISSN 0974-8326.
5. Mushoriwa F., **Rath S.**, Mabika N. & Srinivas S., **Dietary Salt Reduction: a Glance at India and South Africa**, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun, 2016, ISSN 0974-8326.
6. Chigumete T., **Rath S.** & Srinivas S., Promoting Healthy Diets for Sustainable Development, *Indian Journal of Pharmacy Practice*, Vol 9, Issue 2, Apr-Jun, 2016, ISSN 0974-8326.
7. **Rath S.** And Rath P., Climate Change and Occupation with reference to Agriculture in India, *The Goa Geographer*, Vol. VII, 2010, ISSN: 0976-786X.
8. **Rath S.**, **Female Work Participation in Goa**, *The Goa Geographer*, Vol. VIII, No. 1, Dec. 2011, ISSN: 0976-786X, pp. 150-157.
9. Dessai S. and **Rath S.**, **A study of Performance of Agriculture in Goa**, *The Goa Geographer*, Vol. X (1), December 2013, ISSN: 0976-786X.
10. **Rath S.**, An Overview of Current Inflation in India, *Researcher's Today*, Volume 2, No 1, January-March 2012 with ISSN-2231- 4369.

Research Publications in Books -04

1. **Rath S.**, A Review of Economic Development of India in Agrawal V.(ed.) *Indian Economy and International Perspective*, Indus Valley Publications, Jaipur-New Delhi, 2012, ISBN: 81-8871-970-6, pp.112-119.
2. **Rath S.**, An Analysis of Domestic Savings in India in Singh, D.V. (ed.) *Savings in India: Trends and Prospects*, Radha Publications, New Delhi, 2013, ISBN: 978-81-7487-848-9, pp. 44-52
3. **Rath S.**, Promotion of Sustainable Tourism through Healthy Tourism Policy with special reference to Goa in Tomar A.S. (ed.) *Eco Tourism: Principles and Practices*, Radha Publications, New Delhi, 2015, ISBN: 978-81-7487-890-8, pp. 39-48.
4. **Rath S.**, The Status of Agriculture in Goa in Prasad, K.N. (ed.), *Regional Development in the era of Globalization, Liberalization & Privatization* (Proceedings of the National Seminar sponsored by UGC, CRO, Bhopal), Adhyayan Publications, New Delhi, 2012, ISBN: 978-81-8435-361-7, pp. 68-79.

Received Hugh Kelly Fellowship from Rhodes University, South Africa for the period from January 2016 to May 2016.

Number of Papers published in peer reviewed journals (National/ International) by faculty and students: **25**

Chapter in Books: **11**

20. Areas of consultancy and income generated: **NIL**
21. Faculty as members in
 - a) National committees b) International Committees c) Editorial Board: **NIL**
22. Student projects
 - a. Percentage of students who have done in-house projects including inter departmental/programme: **100 %**
 - b. Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies : **NIL**
23. Awards / Recognitions received by faculty and students
 - Dr Christina De Souza: Best Paper Award at National Conference organized by Goa College of Home Science, Campal on 14th and 15th, February 2015 for paper titled 'Women in the Unorganized Sector: Investigating the Social Protection of vegetable Vendors in Goa'
 - Tanviraj T. Parwar, from S.Y.B.A. received the College Topper Prize, awarded by the Scientific Research Association for Economics and Finance organized by Parvatibai College, Department of Economics Margao-Goa in December 2015.
 - Ms. Velanka Gomes from F.Y.B.A. was awarded the Second Place in the event Voice of Economics at an intercollegiate event Economica 2015-2016 organized by Shree Damodar College-Margao, on 11th September 2015.
 - Mr. Cion Dias from S.Y.B.Com. was awarded the Second Place in Turn Table (Debate Competition) at an intercollegiate event Economica 2016-2017 organized by Shree Damodar College-Margao, on 19th September 2016.
 - Ms. Dominga Pereira and Ms.Velanka Gomes from S.Y.B.A. was awarded the Third Place in the event Voice of Economica (Singing Competition) at an intercollegiate event Economica 2016-2017 organized by Shree Damodar College-Margao, on 19th September 2016.

24. List of eminent academicians and scientists/visitors to the department:
- Dr. K. G. Hiremath, Associate Professor of Botany, Dhempe College, Miramar
 - Mr. Minguel Braganza, President, Botanical Society of Goa
 - Mr. Nilesh Amonkar, Corporate Manager
 - Mr. Karan Manaral, Social Entrepreneur/Environmentalist
 - Ms. Rodha Antao, Assistant Professor in Nutrition, Goa College of Home Science, Campal
 - Shri. Ashok Joshi, Branch Manager, Canara Bank, Marcela-Goa
 - Mrs. Pradnya P. Desai, Branch Manager, State bank of India, Marcela-Goa
 - Mr. Sudesh Kacharekar, Manager, RBI, Panaji Branch.
 - Mr. Pravin Sabnis, Corporate Trainer, Panaji.
 - Mr. Jesus Reibeiro, Corporate Trainer, Panaji
 - Dr. C. J. Arun, Director of Goa Institute of Management, Sanquelim.
 - Dr. Radhika Nayak, Principal Dempo College, Panaji
 - Mr. Sanjay Bhandari, Manager, Nestle India Limited, Usgao.
25. Seminars/Conferences/Workshops organized & the source of funding:

State level:

Programmes	Title	Date	Funding Agency
One Day State level Workshop	Work Vision: Developing Employability Skills	6 th August 2010	CII - Young Indians, Goa Chapter
State level Workshop	Philatelic	22 nd January 2011	Nil
Orientation Programme	Practical Banking	22 nd April to 30 th April 2013	Self-Financed
State level Workshop	Organic Farming	10 th December 2013	Rotary Club of Panaji, Riviera
Follow up State level Workshop	Organic Farming	25 th February 2014	Department of Science Technology and Environment, Government of Goa
State level Workshop	Oyster Mushroom Cultivation	23 rd September 2014	Rotary Club of Panaji, Riviera
State level Workshop	Campus to Corporate	16 th and 17 th January 2015	ICSSR, Mumbai and Rotary Club of Panaji, Riviera

26. Student profile programme/course wise:

Programme	Name of the Course	Application received	Selected		Enrolled	Pass Percentage
			Male	Female		
Year 2010-2015						
B. Com.	Semester I and II Managerial Economics	1240	493	688	1181	79%
B. Com.	Semester III Indian financial and fiscal system	572	193	358	551	84%
B. Com.	Semester IV Economics of Resources	546	198	337	535	86%
B. Com.	Semester V International Economics	614	304	310	614	96%
B. Com.	Semester VI Issues of the Indian Economy	614	304	310	614	97%
Year 2010-2015						
B.A.	Semester I & II Microeconomics	171	50	121	171	75%
B.A.	Semester III & IV Macroeconomics	137	45	84	129	93%
B.A.	Semester V & VI Contemporary Indian Economy International Trade and Finance Public Finance	33	14	19	33	100%

27. Diversity of Students

Name of the course	% of students from the same state	% of students From other states	% of students From abroad
B.A. Economics	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defence Services, etc.? **Nil**

29. Student progression

Student Progression	Against % enrolled
UG to PG	
2010-2011	50%
2011-12	75%
2012-13	50%
2013-14	50%
2014-15	45%
PG to M.Phil	Nil
PG to Ph.D.	Nil
Ph,D. to Post- Doctoral	Nil
Employed	
Campus selection	Nil
Other than campus recruitment	
2010 - 11	40%
2011-12	30%
2012-13	35%
2013-14	40%
2014-15	45%
Entrepreneurship/Self-employment	10%

Students are employed in BPOs, Government Departments, sea farers, teaching profession

30. Details of Infrastructural facilities

a. Library: **The department has 1332 books and Multidisciplinary Journals**

b. Internet facilities for Staff & Students: **Available**

c. Class rooms with ICT facility: **Available**

d. Laboratories: **N. A.**

31. Number of students receiving financial assistance from college, university, government or other agencies:

SC: 05 students

ST: 06 students

OBC: 02 students

Students of economics from economically and socially backward classes receive financial assistance through Government scholarships from time to time.

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:
Student enrichment programmes are regularly held for the students on contemporary economic issues. These include:

Mr. Pravin Sabnis, Corporate Trainer, Panaji, *Leadership Skills*, 6th August 2010.

Ms. Sonya Sirsat, CII Young Indians, Goa Chapter, *Interview Skills*, 6th August 2010.

Mr. Ashok Joshi, Branch Manager, Canara Bank-Marcela, Guest Speaker for *Orientation Programme on Practical Banking* on 25th April 2013.

Mrs. Pradnya P. Desai, Branch Manager, State Bank of India, Marcela Branch, Marcela -Goa, during the *Orientation Programme on Practical Banking* from 22nd to 27th April 2013.

Dr. Narvekar, Ex-Librarian of Goa University, One-Day State level *Philatelic Workshop* on 22nd January 2011.

Ms Rodha Antao, Resource person, *Nutrition for Adolescents* on 4th September 2013

Workshop on Organic Farming on 10th December 2013, funded by Canara bank, Marcela and Rotary Club of Panaji, Riviera.

Mr. Sudesh Kacharekar, Manager, RBI, Panaji Branch, Resource person, *RBI Financial Inclusion Programme* on 19th February, 2014.

Workshop on Organic Farming on 25th February 2014, funded by Department of Science, Technology and Environment, Goa.

Mr. Nilesh Amonkar Resource person, *Mantras of Success* on 8th August 2014.

Workshop on Oyster Mushroom Cultivation 23rd September 2014, funded by Rotary Club of Panaji, Riviera.

Workshop on Campus to Corporate 16th and 17th January 2015 funded by ICSSR, Mumbai and Rotary Club of Panaji, Riviera.

33. Teaching methods adopted to improve student learning
Besides the Lecture method other approaches are also adopted to make learning interesting for the students such as:
1. Field Trips to farms and industries
 2. Faculty members use LCD and assist students in their reference work
 3. Wall papers on contemporary Economic issues are encouraged to enhance the knowledge of the students
 4. Quiz competitions and regular tests to assess the learning ability of the students
 5. Workshops are conducted on organic farming, Oyster mushroom cultivation, work culture, campus to corporate.
 6. Guest lectures on mantra of success, banking, nutrition.
 7. Class seminars and presentations by students
34. Participation in Institutional Social Responsibility (ISR) and Extension activities.
Dr. Christina De Souza provides extension services to the Botanical Society of Goa in organizing mega events like the Annual Konkan Fruit Fest, and Plant Utsav, the Rotary Club of Panaji Riviera to organize community service events.

Dr Seema Rath has framed syllabus in Economics in 2013-2014 for the Civil Service Examination of the Goa Public Service Commission. She has delivered Guest Lectures at Rhodes University, South Africa during her sabbatical leave

Sr. No.	Topic	Class	Date
1.	Trade Related Intellectual Property Rights and Access to Essential Medicines in South Africa.	2yr. B. Pharm	22.03.2016
2.	Trade Related Intellectual Property Rights and Access to Essential Medicines in South Africa.	3yr. B. Pharm	04.04.2016
3.	-do-	3yr. B. Pharm	05.04.2016
4.	-do-	3yr. B. Pharm	06.04.2016
5.	Development Indicators and Non-	3yr. B. Pharm	07.04.2016

	communicable Diseases pertaining to South Africa vis-a-vis BRICS and G7 Countries.		
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35. SWOC analysis of the department and Future plans

a) Strengths:

- Qualified and experienced staff
- Enthusiastic students
- Eagerness to learn among the students

b) Weakness:

- Lack of exposure among the students to the outside world.

c) Opportunities:

- To start B. A. programme in Economics with six units
- To start a Post-Graduate Department of Economics

d) Challenges:

- To make the students aware of National and World affairs
- To expose students to the economic environment

Future Plans

To start B. A. programme of six units in Economics

To have a Post graduate course in Economics.

To get the Department of Economics recognized as a Research Centre

To have skill-based courses on Entrepreneurship Development, Soft Skills, Employ ability Skills.

To start short term courses on Research Methodology in Economics, Preparation for Bank Competitive Exams, Organic Farming.

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF ENGLISH

1. Name of the department: **English**
2. Year of Establishment: **1989**
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG B.A. English (3 Units) Foundation Course papers, English Elective papers at Semester I,II,III,IV.**

Courses Offered:-

B.A. : (i) Compulsory English, (ii) Elective English

B.Sc. : Spoken and Written English

B.Com : Business and Public Communication

4. Names of Interdisciplinary courses and the departments/units involved:
Foundation Course Papers viz.

I) Commerce Faculty

- a) Spoken & Written English
- b) Business & Public Communication

II) Science Faculty

- a) Spoken & Written English
- b) Communication Skills & English through Literature

5. Annual/ semester/choice based credit system (programme wise) :
B.A./B.Sc./B.Com.: Semester
6. Participation of the department in the courses offered by other departments :
Spoken and Written English - Department of Computer Science
Business and Public Communication -Department of Commerce
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : **Nil**
8. Details of courses/programmes discontinued (if any) with reasons: **Nil**

9. Number of Teaching posts:

	Sanctioned	Filled
Associate Professor	2	1
Assistant Professor	2	2

10. Faculty profile:

Name	Qualification	Designation	Specialization	Years of Experience	No.ofPh.D students guided for the last 4 years
Dr. Isabel Dennis	M.A., B.Ed., M.Phil., Ph.D.	Associate Professor	English Literature	24 Years	Nil
Dr. Lopamudra Bhattacharyya	M.A., B.Ed., M.Phil., Ph.D.	Assistant Professor	English Literature	04 Years	Nil
Ms. Nafisa Oliveira	M.A. English Lit. L.L.B. SET (English)	Assistant Professor	English Literature	03 Years	Nil

11. List of senior visiting faculty :

Faculty	Designation
Dr. Kiran Budkuley	Dean of Languages and HOD of English, Goa University.
Dr. Rafael Fernandes,	Associate Professor, Department of English, Goa University.
Ms. Sharmila Veloso	Ex- faculty of Nirmala Institute of Education, Altinho.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: (2014-15)

Programme	% lectures delivered
B.A.	66%
B.Com.	50%
B.Sc.	50%

13. Student -Teacher Ratio (2015-16-programme wise):

Programme	Student - Teacher Ratio
F.Y.B.A. (A)	57 : 1
F.Y.B.A. (B)	28 : 1
F.Y.B.A. (Major Paper)	44 : 1
S.Y.B.A.	44 : 1
S.Y.B.A. (Major Paper)	21 : 1
T.Y.B.A. (Unit - 1)	15 : 1
T.Y.B.A. (Unit - 2)	15 : 1
T.Y.B.A. (Unit - 3)	15 : 1
F.Y.B.Com. (A)	48 : 1
F.Y.B.Com. (B)	49 : 1
S.Y.B.Com. (A)	36 : 1

F.Y.B.Sc.	18 : 1
S.Y.B.Sc.	31 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/ PG. :

Name	Qualification
Dr. Isabel Dennis	M.A., M.Phil., Ph.D.
Dr.Lopamudra Bhattacharyya	M.A., M.Phil., Ph.D.
Ms. Nafisa Oliveira	M.A. English Lit.

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **Nil**

18. Research Centre /facility recognized by the University: **Nil**

19. Publications: **Nil**

20. Areas of consultancy and income generated:
The department of English offered consultancy services to Mashel Kala Preme Marcel.
Income generated: Nil

21. Faculty as members in
a) National committees : **NIL**
b) International Committees: Member of International Council of Canadian Studies.
c) Editorial Boards:
1) Chief Editor of College Magazine 'Mahashala'.
2) Chief Editor of College Research Journal 'Khoj'.
3) Member of Editorial Board 'Govapuri' Institute of Menezes Braganza, Panaji- Goa

22. Student projects
a) Percentage of students who have done in-house projects including inter departmental/ programme: **100%**.

Projects (2015-16)	Percentage
Exploring Psychological Challenges in English Literature	2%
Paranormal Literature- Had it increased Reading Habit among Teens	2%

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : **Nil**
23. Awards / Recognitions received by faculty and students : **Nil**
24. List of eminent academicians and scientists / visitors to the department :**Nil**
25. Seminars/ Conferences/Workshops organized & the source of funding
- National : **Nil**
 - International : **Nil**
 - State Level:

One Day State Level Seminar on “Challenges faced by Indian Languages: A Futuristic View” in 2014-15 in association with the Department of Hindi, Marathi and Konkani under the aegis of the Directorate of Official Languages, Govt. of Goa as a part of the Silver Jubilee Celebrations of the College.

26. Student profile programme/course wise :
In respect of the Commerce Stream applications are received by the College and Students are allotted on the basis of their preference. No separate quota for the Department in F.Y.B.Sc., only Computer Science students opt for English and S.Y.B.Sc. (CPM group) take up English. All the students admitted in Arts Stream take English for the first 4 semesters. T.Y.B.A. who opt for three units take up English Literature in Semester V & VI.

T.Y.B.A. pass percentage of 5 years. (English 3 Units)

Year	Application Received	Selected	Male	Female	Total	Pass Percentage
2011-12	4	4	0	4	4	100%
2012-13	7	7	0	7	7	100%
2013-14	16	16	0	16	16	100%
2014-15	11	11	3	8	11	100%
2015-16	15	15	1	14	15	100%

27. Diversity of Students: (2015-16)

Name of the course	% of the students from the same state	% of students from other state	% of students from abroad
Arts	98	2	Nil
Commerce	98	2	Nil
Science	99	1	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc: **Nil**

29. Student progression

Student progression	Year	Against % enrolled
UG to PG	2013-2016	Approximately 1% to 2% every year
PG to M.Phil.	-	-
PG to Ph.D.	-	-
Ph.D. to Post-Doctoral	-	-
Employed Campus selection Other than campus recruitment		Most of our students are employed as Asst. Teachers in schools, Grade I Teachers in Higher Secondaries because of the specialization available in the subject in our College. Some are even working as Lawyers, Reporters & Journalists, Secretaries to Companies etc.
Entrepreneurship / Self-employment		-

30. Details of Infrastructural facilities

a) Library : Yes

Total Number of books (English) - 1307

Rare Collection (English Literature) - 2277

b) Internet facilities for Staff & Students: Yes

c) Class rooms with ICT facility : Yes

d) Laboratories : N.A.

31. Number of students receiving financial assistance from college, university, government or other agencies: English (Elective) - Post Matric Scholarship

	SC	ST	OBC
F.Y.B.A.	--	--	--
S.Y.B.A.	--	--	1
T.Y.B.A.	--	1	--

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:
Talks by eminent personalities are arranged for students. They are also encouraged to participate in Seminars and Workshops organized by this Institution, other Institutions and agencies.
33. Teaching methods adopted to improve student learning:
- Remedial classes for students with poor subject proficiency, pair based work, group discussions, presentations, regular tests, list of reading material made available, use of multi-media wherever possible.
 - Students are motivated to refer books in library to gain mastery in the skills of Spoken English. They are well equipped to take part in debates, elocutions etc. They also develop a sense of critical thinking.
 - Mock Interviews, Telephone Conversations, On the Spot Conversations, Presentations are conducted and tested.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
Institutional Social Responsibility (ISR)
Ms. Anita Jacob was programme officer for NSS for the academic year 2011-12.
- The students are encouraged to discuss and debate current social issues published in the newspapers in the classroom. They are also motivated to participate in programmes/ competitions/ street plays organized to create awareness and sensitization vis-à-vis social issues through NSS, rallies organized by various departments, Alumni, etc.
- Extension activities
Dr. Isabel Dennis helped to organize a state level Intercollegiate debate competition on the topic Social Media: A boon or bane on 21st September 2016 in association with Mashel Kala Preme Marcel.
- Ms. Anita Jacob has been a resource person in English language for Japanese students of Study India Programme (SIP) at Goa University.
35. SWOC analysis of the department and Future plans
- a) **Strengths**
- Qualified, Experienced and Dedicated staff.

- Good Collection of Books.
- ICT/ Smart Classrooms.
- Hard working students.

b) Opportunities

- To start B.A. (six units) in English Literature.
- To start certificate & value added course for students.

c) Weakness

- No certificate courses.
- Staff involved in multi-tasking.
- Full time faculty required.
- Visit of experts in the subject was limited due to financial crunch.

d) Challenges

- Absence of sufficient full time teaching & non-teaching staff.
- To motivate students to communicate in English (speaking and writing).

Future Plans

- B.A. Programme (six units in English)
- To organize programmes to help the students to develop their writing and speaking skills.
- Arrange special lectures to develop the creative writing skills of the students.
- Publications

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF HINDI

1. Name of the department: **Hindi**
2. Year of Establishment: **1989**
3. Names of Programmes / Courses offered: **UG: BA-Hindi (3 units)**
4. Names of Interdisciplinary courses and the departments/units involved :**Nil**
5. Annual/ semester/choice based credit system (programme wise) :**BA semester**
6. Participation of the department in the courses offered by other departments:**Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.
 - Hindi-Kala Utsav in collaboration with Mashel Kala premi Sangh.
 - State Level Seminar with Goa Konkani Academy.
8. Details of courses/programmes discontinued (if any) with reasons :
Nil
9. Number of Teaching posts

	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	02	02

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	Years of experience	No of Ph D students guided for the last 4 years
Ms. Asha Gahloth	M.A., registered for Ph.d.	HOD/ Associate Professor	21 st centuries Hindi poetry	25years	Nil
Ms. Jyoti Sawal	M.A.,B.ed	Asst.Professor	-	1years	Nil
Ms. Asha Naik	M.A.	Asst.Professor	-	1years	Nil

11. List of senior visiting faculty :

Sr.No.	Name of the Faculty	Name of the Institution	Year
1	Dr. Shubhada Joshi	Govt. College Sanquelim-Goa.	2009
2	Dr. Ramita Gurav	St. Xavier's college, Mapusa.	2010
3	Smt. Uma Priolkar	P.E.S. College Farmagudi	2012
4	Mr. Ashok Tilve	Rashtrabhasha Pracharak, Marcel.	2011
5	Dr. Satyadev Tripathi	Prof. Dept. of Hindi SNDT University, Mumbai.	2013
6	Ms. Magdalene D'souza	St. Xavier's college, Mapusa- Goa.	2014

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty: **30%**

13. Student -Teacher Ratio (programme wise):

	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
F.Y.B.A.(opt)	28:1	36:1	22:1	31:1	40:1
F.Y.B.A.(maj)	44:1	23:1	19:1	26:1	30:1
S.Y.B.A.	24:1	40:1	19:1	15:1	24:1
T.Y.B.A.	22:1	22:1	27:1	13:1	13:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**

15. Qualifications of teaching faculty with Dsc/D.Litt/Ph.D/MPhil/PG:

Name	Qualification
Ms. Asha Gahloth	M.A.
Ms. Jyoti Sawal	M. A.
Ms. Asha Naik	M. A.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **Nil**

18. Research Centre /facility recognized by the University: **Nil**

19. Publications:

a) Publication per faculty: **Ms. Asha Gahloth**

1. Ms.Asha Gahloth, Research paper "Patra aur paristhitiyonke sath gahara lagav", in 'Arya Sandesh' published from Bhopal, Madhya Pradesh ISSN 2277- 4084, 2014.
2. Ms.Asha Gahloth Research article "Dattatriya ke dukh se gujarte hue" published in literary magazine Goapuri, Published by Institute Menezes Braganza Panaji.
3. Ms.Asha Gahloth, Research paper "21vya Shekdyatli hindi kavita" published in literary magazine Goapuri volume September 2013.
4. Ms. Asha Gahloth, Research paper "Pyar ki Dharohar par pukhta bani Kahaniya" published in literary magazine Goapuri volume March 2014.
5. Ms.Asha Gahloth, Research paper "Mridula Sinha Ki Laghu Kathaye -Ek Drishti" published in literary magazine Goapuri volume Jan-March 2015.
6. Ms.Asha Gahloth, Research paper "Mahadevi Varma kamanvetarparivar", published in literary magazine Goapuri volume April-June 2015
7. Asha Gahloth, Research paper "Sant Meera ka jeevan Aur parivesh" in Khoj-vol in the year 2011.

b) Book chapters:-

- 'Samakaleen hindi kavita' in the edited Book 'Samkaleen Bhartiya Sahitya' Published by Konkani Department, Carmel College, Nuvem 2014.
- 'Vigyapanaursamaj' in the edited Book 'Mediya aur loktantra,' published by Vani Prakashan, Delhi 2014.
- Translated stories were published in the book 'Katha Darpan' published by Institute Menezes Braganza Panaji.

c) Co-edited Book:-

- "Kavyakalash" Published by Lokbharti prakashan -Allahabad in 2010.
- "Nibandh Manthan" a book published by Lok Bharti Prakashan- Allahabad in 2009.

Papers presented:4

20. Areas of consultancy and income generated:-
Compering, proof reading etc. no income generated.
21. Faculty as members in a) National committees b) International Committee c) Editorial Boards....

Ms. Asha Gahloth

- Appointed by Government of Goa as a Member of Board of Directors of Institute Menezes Braganza, Panaji goa for the period of 3 years

(2013-2015) extended the period up to year 2018.

- Member of Board Of studies- Goa University (2009-2012).
- Member Of editorial Board of Goapuri- a literary quarterly Magazine, published by IMB Panaji.
- Life member of 'Prayas' a literary association.
- Co-editor of Special Hindi issue of Goapuri – April-June-2016
- "21vi sadi ka hindi sahitya" April-june2016

22. Students projects

- a) Percentage of students who have done in-house projects including inter departmental/programme : **100%**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:**Nil**

23. Awards / Recognition received by faculty and students :-

Faculty Achievements

Services of Ms Asha Gehlot are recognized by Govt. of Goa and is appointed as a Member of Directors of Institute Menezes Braganza, a institute associated with art, language and literature.

Students Achievements

- **Ms. Vishranti Halgekar** a ex-student of Hindi Dept. was a **Gold medalist** at University in Dept. of Hindi in the year 2014.
- **Ms. Asha Naik** student of Hindi Dept. awarded as **student of the year** of Govt. College Khandola in the year 2012-2013.
- **Ms. Sujata Ghadi** won **2nd place** in all Goa **essay writing competition** organised by Govt. college Quepem in 2010
- **Ms. Jyoti Sawal** won **2nd place** in all Goa **Hindi story writing competition** organised by CES college of Arts & Commerce, Cuncolim-Goa 2010-2011
- **Ms. Jyoti Sawal** won **1st place** in all Goa **Hindi story writing competition** organised by CES college of Arts & Commerce, Cuncolim-Goa 2011-2012.
- Students of Dept. of Hindi **won 2nd place** at all Goa **Hindi Srijanotsav** 2014.
- Ms. Pratiksha Pilgaonkar won 3rd place in drama competition at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2014.
- **Ms. Anjali Naik** won **1st Place** at **essay writing Competition** at All Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji 2014.
- **Ms. Bharati Paranjpe** won 2nd place in **elocution competition** at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2014.
- **Ms. Bharati Paranjpe** won 3rd place in **elocution competition** at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza

Panaji, 2015.

- **Mr. Goutam Gaude** won 2nd place in **drama** competition at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2015.
- Students of Dept. of Hindi **won 3rd place** at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2016.
- **Ms. Gayatri Patil** won 1st place in **santrachana** (Hindi Bhajan) at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2016.
- **Ms Khushbu Shah** won 2nd place in '**Ashukavita**' at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2016.
- **Ms. Bharati Paranjpe** won 3rd place in **elocution competition** at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2016.
- Students of Dept. of Hindi **won 2nd place** in **wallpaper** at all Goa **Hindi Srijanotsav** organized by Institute Menezes Braganza Panaji, 2016.

24. List of eminent academicians and scientists / visitors to the department :

- 1) Dr. Shubhada Joshi, HOD Government College Saquelim.-2009
- 2) Ms. Jayashree Roy- noted Hindi writer.-2010.
- 3) Ms. Magdelene D'souza St. Xaviers College, Mapusa-Goa.
- 4) Dr. Ramita Gurav St. Xaviers College, Mapusa-Goa.
- 5) Dr. Ravindranath Mishra, HOD Department of Hindi Goa University. 2012.
- 6) Dr. Ishrat Khan Reader, Department. of Hindi, Goa University 2012.
- 7) Dr. Vrushali Mandrekar Reader Department. of Hindi, Goa University 2012.
- 8) Ms. Magdelene D'souza, St. Xaviers college, Mapusa-Goa.2012
- 9) Dr. Ramita Gurav, St. Xaviers college, Mapusa-Goa.2012
- 10) Dr. Rupa Chyari, HOD Shri Mallikarjun College, Cancona-2012.
- 11) Mrs. Uma priolkar , lecturer, P.E.S. College-Ponda. 2012
- 12) Dr. Brijpal Singh Gahloth, lecturer Government College Quepem- 2012.
- 13) Mrs. Bharti Parab , lecturer Government college ,Quepem-2012.
- 14) Ms.Amrita Dinge, HOD, Government college, Pernem-2012.
- 15) Ms. Lata Shirodkar, Chowgule College, Margao-2012.
- 16) Dr. kiran Popkar, Dhempe College, Miramar 2012.
- 17) Dr. Satyadev Tripathi, Prof. Department. of Hindi, SNDT University Mumbai-2012.
- 18) Mr. Rakesh Bihari- vidhyanchal Madhya Pradesh 28th January 2015.

25. Seminars/ Conferences/Workshops organized & the source of funding : **Nil**

26. Student profile programme/course wise:

Name of the Course/programmes	Application received	Selected	Enrolled		Pass Percentage
			*M	*F	
T.Y. B.A. 2010-2011	16	16	5	11	100%
T.Y. B.A. 2011-2012	23	23	2	21	92%
T.Y. B.A. 2013-2014	22	22	2	20	100%
T.Y. B.A. 2014-2015	26	26	3	23	97%

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
F.Y. B.A.	100%	Nil	Nil
S.Y. B.A.	100%	Nil	Nil
T.Y. B.A.	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **Nil**

29. Student progression

Student progression	Against % enrolled
UG to PG	50%
PG to M.Phil.	Data not available
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	80%
• Campus selection	Asst. Teacher, Librarian, Govt. jobs.
• Other than campus recruitment	R.T.O., Museums, Journalist, etc.
Entrepreneurship/self-employed	5%

30. Details of Infrastructural facilities

- a) Library- No. of Book: **840**
- b) Internet facilities for Staff & Students :**Available**
- c) Class rooms with ICT facility: **Available**
- d) Laboratories :**Nil**

31. Number of students receiving financial assistance from college, university, government or other agencies: -

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:-
- 1) Special lectures by resource persons, Dr. Shubhada Joshi, Dr. Ramita Gurav. Smt. Magdelene D'soza, Dr. Satyadev Tripathiare organized for students of Hindi time to time.
 - 2) One day State level workshop on 'Reetikal' in the year 2012 for the students of T.Y. B.A.
 - 3) The students participated in 'Hindi Srijanotsav' 2014 and 2015 organised by IMB Panaji and won Runners up trophy.
 - 4) The Hindi Department in association with the Abhyas mandal and Goa Konkani Academy, Panaji organised a State Level Hindi-Konkani seminar on the topic 'Jayanti Naik and Jayashree Roy ka Katha Sahitya ek abhyas' on 4th September 2013.
 - 5) Students of T.Y.B.A. attended a workshop on poetry, essay and story writing skills on 7th July 2013 at Institute Menezes Branganza Panaji.
 - 6) Students attended a workshop on poetry writing skills organized by Institute Menezes Branganza, Panaji on 23rd January 2014. The Resource person was Shri. Arun Kamal, Patna.
 - 7) Twenty students of T.Y.B.A. attended 'Rashtriya Kavi Sammelan' at Institute Menezes Branganza on 24th January 2014.
 - 8) Hindi poetries of students, Ms. Pradnya Tari and Ms. Ankita Naik were published in 'Goapuri' a three monthly magazine of IMB in October/December 2013 issue.
 - 9) A guest lecture for Hindi students on the topic 'Kabira Khada Bazar mein' was organised on 25th March 2014 by Ms. Magdalene D'souza, HOD, St. Xavier's College Mapusa.
33. Teaching methods adopted to improve student learning:-
- Teaching is student centric.
 - Teachers conduct midterm course review for feedback to understand the learning status of students.
 - Practice tests were conducted which facilitated good results.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Ms. Asha Gahloth:** Institutional Social Responsibility:
- Co-ordinator of N.S.S. (2014), Chairperson of students Council (2012).
 - Convener of the State Level Seminar organised by Abhyas Mandal, Government College Khandola in collaboration with Goa Konkani Akadami Panaji on 4th September 2013 on the topic Jayanti Naik and Jayashree Roy ka Katha sahitya.
 - Department of Hindi organized "Hindi Diwas" on 22nd September 2016 at Government College Khandola.

Ms. Asha Gahloth : Extension activities

- Member of 1) Board of Directors of Institute Menezes Branganza Panaji. 2) Organizing committee of National poets meet (2013-2015), 3) organizing committee of lecture series on social, political, environmental issues by Goan scholars for the year 2013 & 2014.
- Organized all Goa 'Women's Meet' (Mahila Melawa) on different social issues like- Challenges faced by teenager's Mother (year 2013), Why Divorce (year 2014), Bitiya hai vishesh (year 2015) for women.
- Initiated 1) 'Mimansa' a critical appraisal programme of newly published Hindi/Marathi/Konkani Books. 2) All Goa Hindi - Srijanotsav,' a one day Hindi literary activity where in around 450 students from all over Goa actively participated.
- Presented a Book review of 1) 'Ankahee' Authored by Jayashree Roy. 2) '21vi sadi ki hindi kavita' authored by Dr. R.N. Mishra. Convener of 'All Goa Poetry Writing Workshop' January, 2013, 4) National Level Seminar on Muktibodh ka Srujanatmak Avdan, July 2016 at Institute Menezes Branganza Panaji. 5) Mimansa at "Dardaja" July 2016 organised by Institute Menezes Branganza Panaji.

35. SWOC analysis of the department and Future plans:-

a) Strength

- Good results at University level.
- Organising calibre of the students.
- Hindi writing and speaking skills.
- Students can compete with city students.
- Ranks at PG level.
- Very good co operation from Alumni.

b) Weaknesses

- No six units for third year B.A. Course.

c) Opportunities

- To start Research Centre in Hindi.

d) Challenges

- Use of latest technology in Hindi subject.
- To excel in the field of journalism.

Future plans:-

- Six units Hindi.
- To inspire students to appear for NET/SET exams.

EVALUATIVE REPORT OF THE DEPARTMENT

KONKANI DEPARTMENT

1. Name of the department :**Konkani**
2. Year of Establishment :**1989**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):
UG : BA Konkani (3 units)
4. Names of Interdisciplinary courses and the departments/units involved: **Nil**
5. Annual/ semester/choice based credit system (programme wise) :
B.A: Semester
6. Participation of the department in the courses offered by other departments : **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. :**Nil**
8. Details of courses/programmes discontinued (if any) with reasons :**Nil**

9. Number of Teaching posts

	Sanctioned	Filled
Professor	--	--
Associate Professor	01	01
Asst. Professor	02 (Contract & lecture Basis)	02 (Contract & Lecture Basis)

10. Faculty Profile

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D Students guided for the last 4 years
Prakash R. Vazrikar	M.A. Konkani/ Marathi, M.A. Philosophy, Ph.D. Konkani	Associate Professor	Konkani	25	NIL
Naresh C. Naik	M.A Konkani NET with JRF	Assistant Professor	Konkani	06	NIL
Vaishali Parab	M.A Konkani NET with JRF	Assistant Professor	Konkani	01	NIL

11. List of Senior visiting faculty : **Nil**
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty : **B.A - 84.3%**
13. Student - Teacher Ratio (programme wise)

	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
F.Y.B.A	8:1	3:1	3:1	8:1	16:1
S.Y.B.A	3:1	8:1	3:1	3:1	7:1
T.Y.B.A	5:1	3:1	5:1	2:1	2:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**.
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Name	Qualification
Mr. Prakash R. Vazrikar	M.A. Konkani/Marathi,M.A. Philosophy, Ph.D. Konkani
Mr. Naresh C. Naik	M.A Konkani
Ms. VaishaliParab	M.A Konkani

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : **Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : **Nil**
18. Research Centre /facility recognized by the University : **In progress**
19. Publications:
 - a) Publication per faculty : Prakash R. Vazrikar

Books Published:

- AniEkButoFullo (Play - Konkani)- 2nd Edition
(आनीएकबुटोफुल्लो)
- GhattanKonachem? (Play - Konkani)
(घट्टाणकोणाचें)
- To Ek Dis (Play - Konkani)

(तोएकदीस)

- SaadAntarmanacho (Play – Konkani)
(सादअंतर्मनाचो)
- The Riot to Vote (Play – Konkani)
(दरायटटूवोट)
- Vajraghat (literary Criticism Konkani)
(वज्राघात)
- Karbari Konkani (Co- writer) (Functional Konkani)
(कारबारीकोंकणी)

Research Papers Published

1. कोंकणीरंगमाची- आधुनीकस्थिती – खोजसरकारीमहाविद्यालय,खांडोळे. -2010
2. समकालीनकोंकणीनाटक – समकालीनभारतीयसाहित्यसंप्रक्वीनीविराश. -2013
प्रा .अकल्पितादेसाय
गुणाजीदेसाय
डॉ .हनुमंतचोपडेकर
3. रायटरआनीफायटरवीरकेळेकार2013(हिमालयांतउजावाडाचेसुर ,धुस्पल्लेंजानवेंहांच्यासंदर्भातं)
चौगुलेमहाविद्यालयISBN-978-8925558-0-5
4. नव्याशतकातीलकोंकणीकादंबरीचाशोध - 2014

मायमावशी
संपादक – निरजा
आंतरभारतीअनुवादसुविधा
सानेगुरुजीराष्ट्रीयस्मारकट्रस्ट ,मुंबई.

Mr.NareshNaik

- ‘गांवमन’‘Gaavmann’ a Short Story Book Published in 2010.
 - Articles, Short Stories published in magazines and Newspapers.
20. Areas of consultancy and income generated : **Nil**
 21. Faculty as members in
a) National Committees b) International Committees c) Editorial
Boards... Prakash R. Vazrikar

- Ex-member of 1)The Advisory Committee (Konkani)- sahityaAkademi-Delhi, 2)the Executive Board of Goa Konkani Akademi Goa for two terms
Member of Advisory board (Language Research) at World Konkani Centre, Mangalore

22. Student projects

- a) Percentage of students who have done in-house projects including internal departmental / programme : **100%**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :**Nil**

23. Award / Recognitions received by faculty and students :

Prakash R. Vazrikar

- 1) President of the “VIth Yuva Konkani Sahitya Sammellan” Organized by Goa Konkani Akademi, 2006.
- 2) Awarded “Lt. Narciv Damodar Nayak Award” Constituted by Konkani Bhasha Mandal for the book “ Ani Ek Buto Fullo” 2005.
- 3) Awarded “Lt. Sadanand Khanolkar Literary Award” Constituted by Konkani Kala ani Sahitya Kendra, Churchorem for the book “Ani Ek Buto Fullo” 2008.
- 4) Awarded “Yuva Srujan Puraskar” (Literature) by Department of Arts and Culture Government of Goa, 2009.
- 5) Awarded “D.D kossambe Sr. fellowship of Department of Arts and Culture, Government of Goa for the study on “कोंकणीनाटकचळवळीचोसांस्कृतीकइतिहास”, 2010.

Prizes for State level Drama Competitions Organized by Kala - Akademi, Goa, Sankalp theatre, Curchorem & Rajiv Gandhi Kala Mandir, Ponda.

For the Best Script Writer

Sr. No.	Name of the Drama	Language	Institution	Prize
1.	Ani Ek Buto Fullo (आनीएकबुटोफुल्लो)	Konkani	K. A.	First
2.	Ghattan Konachem (घट्टाणकोणाचें)	Konkani	K. A.	First
3.	Kani Tashi Junich Pun (काणीतशीजुनीचपूण)	Konkani	K. A.	First
4.	Saad Antar Manacho (सादअंतर्मनाचो)	Konkani	K. A.	First
5.	Ani Ek Prasna Parva (आनीएकप्रस्नपर्व)	Konkani	K. A.	First

6.	Ethe Ethe Pani (इथेइथेपानी)	Marathi	K. A.	First
7.	To Ek Dis (तोएकदीस)	Konkani	K. A.	First
8.	Discharge Summary (डिसचार्जसमरी)	Konkani	Rajiv Kala Mandir,Ponda	First
9.	KaniTashi Junich Pun (काणीतशीजुनीचपूण)	Konkani	Sankalp Theatre, Curchorem	Second
10.	Ani Ek Prasna Parva (आनीएकप्रस्नपर्व)	Konkani	Sankalp Theatre, Curchorem	First
11.	Partiche Vater (परतीचेवाटेर)	Konkani	Sankalp Theatre, Curchorem	First
12.	Dakhonm Tumka? (दाखोंवतुमका ?)	Konkani	Sankalp Theatre, Curchorem	First
13.	The Riot to Vote (दरायटटूवोट)	Konkani	Sankalp Theatre, Curchorem	First
14.	Homkand (होमकांड)	Konkani	K. A.	Second
15.	Ekmatacha Raja (एकमताचाराजा)	Marathi	K. A.	Second
16.	Gav Khali Karnyacha Bhonga(गावखालीकरण्याचाभोंगा)	Marathi	K. A.	First
17.	Aut de Fe (ऑतदफॅ)	Konkani	K. A.	First
18.	Anand Mathi (आनंदमठी)	Konkani	K. A.	First

Mr. Naresh C. Naik

- Awarded by Sahitya Akademi Yuva Puraskar in 2014.
- Received Gold Medal for M.A in Konkani at Goa University.
- Awarded by Konkani Bhasha Mandal's Shikshanik Puraskar for standing First in MA (Konkani).
- Felicitated by Mallikarjun College, Canacona for standing First in BA & MA.
- Received a Travel Grant from Sahitya Akademi, New Delhi.

Miss. Vaishali V. Parab,

- Secured Third Place in All Goa Inter-Collegiate quiz competition organized by Konkani Bhasha Mandal, Madgaon and Father Agnel College, Pilar in the year 2013.
- Secured Fourth Place in All Goa Inter-Collegiate quiz competition organized by Konkani Bhasha Mandal, Madgaon.

- Secured Second Place in All Goa Inter-Collegiate quiz competition organized by Antruz Ghudyo, Bandora.
- Secured Third Place in quiz competitions organized by 2nd Sadhana Sahitya Sammelan.
- Secured Third Place in Marathi Poetry Reciting competition organized by C.E.S College of Arts and Science, Cuncollem
- Secured Bronze Medal for Judo organized by Goa University in the year 2010-11 and 2011-12 .
- Awarded for being best NSS Volunteer for three continues years.
- Awarded as a Best Student of the year 2011-2012.
- Awarded as a Best Sports Volunteer of the year 2011-2012

24. List of eminent academicians and scientists/visitors to the department:
Nil.

25. Seminars/ Conferences/Workshops organized & the source of funding
National b)International :**Nil**

26. Student profile programme / course wise:

Name of the Course/ programme (refer question no. 4	Applications received	Selected	Enrolled	
			*M	*F
FYBA 2012-13	17	17	3	14
SYBA	07	07	-	7
TYBA	10	10	1	10
FYBA 2013-14	07	07	3	4
SYBA	16	16	2	14
TYBA	06	6	-	6
FYBA 2014-15	06	06	2	4
SYBA	06	06	3	3
TYBA	10	10	-	10
FYBA 2015-16	16	16	5	11
SYBA	05	05	2	3
TYBA	06	6	3	3
FYBA 2016-17	31	31	-	-
SYBA	14	14	-	-
TYBA	05	05	2	3

27. Diversity of Students

Name of the course	% of the students from the same state	% of students from other state	% of students from abroad
F. Y. BA	100	Nil	Nil
S Y BA	100	Nil	Nil
T Y BA	60	40	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

02 NET with JRF

29. Student progression

Student progression	Against % enrolled
UG to PG	
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed Campus selection Other than campus recruitment	01

30. Details of Infrastructural facilities

- a) Library : No. of Books - 812
- b) Internet facilities for Staff & Students
- c) Class rooms with ICT facility: YES
- d) Laboratories : Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

Academic Year	ST
2015-2016	02

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :**Nil**
33. Teaching methods adopted to improve student learning: ICT Lessons/Powerpoint lessons & Devnagri typing
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**Nil**

35. SWOC analysis of the department and Future plans

a) Strength

- Qualified & experienced faculty

b) Weakness

- Low enrollment
- Rural Background

c) Opportunity

- To start post-graduation courses

d) Challenges

- Journalism & Media Channels

Future Plan

- To start six units for B.A.
- To setup research centre in Konkani.
- To recognize centre for official language Training.

EVALUATIVE REPORT OF THE DEPARTMENT

DEPARTMENT OF MARATHI

1. Name of the department: **Marathi**
2. Year of Establishment: **1989**
3. Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**UG - B.A.**
4. Names of Interdisciplinary courses and the departments/units involved: **Nil**
5. Annual/semester/choice based credit system (programme wise): **B.A. Semester.**
6. Participation of the department in the courses offered by other departments : **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. Goa university: **Nil**
8. Details of courses/programmes discontinued(if any)with reasons: **NIL**
9. Number of Teaching posts

	Sanctioned	Filled
Asst. Professors	One	One
Asst. professors [lecture basis]	Three	Three

10. Faculty profile

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4 years
Sunetra Sushant Kalangutkar	M.A. Marathi M.A. Hindi	Asst. Prof. of Marathi	--	20	Nil
Prachi G.Joshi	M.Phil. Marathi M.A. Marathi	Asst. Prof. of Marathi (Lecture basis)	--	01	Nil

Sujata D. Bhatkar	M. A. Economics and History M.A. Marathi	Asst. Prof. of Marathi (Lecture basis)	--	17	Nil
Durgadevi Bondre	M. A. Marathi	Asst. Prof. of Marathi (Lecture basis)	--	01	Nil

11. List of senior visiting faculty: **NIL**

12. Percentage of lectures delivered and practical classes handled (programme wise): By temporary faculty

2010-2011	2011-2012	2012 - 2013	2013 - 2014	2014 - 2015	2015- 2016
46%	38%	36%	46%	38%	34%

13. Student-Teacher Ratio(programme wise)

2011- 2012	2012- 2013	2013- 2014	2014- 2015	2015-2016
22:1	29:1	37:1	30:1	23:1

14. Number of academic support staff (technical) and administrative staff sanctioned and filled - **Nil**

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

Sunetra S. Calangutkar	M.A. (Marathi), M.A. (Hindi), M.Phil.
Prachi G. Joshi	M.A. (Marathi)
Sujata D. Bhatkar	M.A. (Economics & History), M.A. (Marathi)
Durgadevi Bondre	M. A.(Marathi)

16. Number of faculty with ongoing projects from a) National b)International funding agencies and grants received: **N.A.**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR,etc. and total grants received: **NIL**

18. Research Centre/facility recognized by the University: **NIL**

19. Publications:

a) Publication per faculty :
Sunetra Calangutkar

Book Publication :

- 1) 'PARJANYA' (Anthology), *Sunetra Calangutkar, Lopamudra Publication, June 2013.*

Research Papers Published in Books:

- 1) Bhiku Pai Angle yanche Marathi vishyak Lekhan', *Prof. Bhiku Pai Angle yanche Sahitya: Swaroop va Sameeksha, Editor - Shrikrishna Adsul, Publisher- Smt. Parvatibai Chowgule College , Margao, December 2012.*
- 2) 'Sanskarksham Balkavita', 'Ramesh vanskar yaanchi Sahityaseva, Sameeksha', *Editor - Dr. Ashok Mangutkar, Publisher - Navdurga Prakashan, Bori, 2014.*
- 3) 'Kagud ani Sawli ya Kadambaritil Samajdarshan', 'Anandparva', *Editor - Prof. Shrikrishna Adsul, Publisher - Anand Granthasagar Prakashan, August 2014., ISBN -978-81-923016-7-9.*

Research Articles Published :

- 1) 'Chintananshil ani vyasangi sameekshak : Dr. G.B. gramopaadhe' , 'Kushavati' *Deepawali visheshank' , editor- Ashok Mangutkar,2009*
- 2) 'Monitar', 'yashwant Traimasik', *editor- Avdhut Kurtarkar.*

Paper Presentations: Sunetra Calangutkar: 06

b) Publication per faculty: Sujata Bhatkar

- 1) 'Nisarg Nakshi' , *Sujata Bhatkar, Publisher- Madhushri Prakashan, Pune,2011*

c) Publication per faculty: Prachi Joshi

- 1) Published research paper in book 'samajsudharakanche marathi sahityala yogdan'. *ISBN NO: 978-81-931444-1-1, Published by Principal DR.Pushpa Ranade, Shri. sidhhivinayak mahila mahavidyalay, Pune.*
- 2) Published a research paper in 'Smaranika of Shardiya Chandrakala a sahityasammelan held on 20,21 feb. 2016'.
- 3) Presented a research paper at National level seminar on the topic 'samajsudharakanche marathi sahityalayogdan' on 22-23 Jan. 2016

organised by Shri. Sidhivinayak Mahila Mhavidyalay, Karve-nagar
pune

Chapter in Books

Sunetra Calangutkar

- 1) *'Prof.Bhiku pai Angle yanche sahitya: swaroop va sameeksha'*, Editor – Shrikrishna Adsul, Smt. Parvatibai Chowgule College, Madgaon , December 2012.
- 2) *Ramesh Vanskar yanchi sahityaseva, sameeksha*, Editor – Ashok Mangutkar, Navdurga Publication, March 2014.
- 3) *'Anandparva'*, Editor – Shrikrishna Adsul, Anand Granthasagar Prakashan, August 2014, ISBN -978-81-923016-7-9

Prachi Joshi

- 1) *Published research paper in book 'samaj sudharakanche Marathi sahityala yogdan'*. ISBN NO: 978-81-931444-1-1, Published by principal Dr. Pushpa Ranade. Shri. sidhivinayak mahila mahavidyalay pune.
- 2) *Published a research paper in 'Smaranika of Shardiya Chandrakala a sahitya sammelan held on 20-21 Feb. 2016.*
- 3) *Presented a research paper at National level seminar on the topic 'samaj sudharakanche Marathi sahityala yogdan' on 22-23 Jan. 2016 organised by Shri.SidhivinayakMahilaMhavidyalay, Karve-nagar pune.*

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in

a) National committees

1. Sujata Bhatkar, Asst. prof. of Marathi, (lecture basis), was Member of Goa state women commission for the year 2010-2013
2. Member of Goa state child protection commission for the year 2015-18.

b) Editorial Boards.... **NIL**

22. Student projects

- a) Percentage of students who have done in-house projects including interdepartmental/programme 100%

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies N.A.

23. Awards/Recognitions received by faculty and students

a) Awards for faculty:

1. Sunetra Calangutkar,
Prizes for poetry and Lalit Lekhan.
2. Sujata Bhatkar
 - a) 1st Prize for Lalit Lekhan in Gomantak Diwali Issue 2015.
 - b) 2nd Prize for Lalit Lekhan in Gomantak Diwali Issue 2014.
 - c) 2nd Prize for Lalit Lekhan in Gomantak Diwali Issue 2013.
3. Prachi Joshi
 - a) Awarded Gold Medal for securing highest marks in marathi at M.A. IN MARATHI at the hands of Governer of Goa at Annual Convocation Ceremony of Goa University held on 5th Feb 2016.
 - b) Awarded 2nd place in essay writing competition organised by 'Marathi rajyabhasha samiti' Goa on 19th August 2015.

b) Awards for Students :

Best student award from college:

2011- 2012	MsVaishali Parab
2012-2013	Ms Asha Naik
2014- 2015	Ms Pradnya Tari
2015- 2016	Mr. Sanjay Salelkar

1. Pradnya Tari secured third prize for poetry competition organised by Dept. of Marathi, Goa University, 2012.
2. Bharti Paranjape secured first prize in elocution competition organized by Marathi Bhasha Parishad, ponda ,2014
3. Bharti Paranjape secured consolation prize in elocution competition organized by Rotary Club Panaji 2014.
4. Bharti Paranjape secured consolation prize in elocution competition organized by ' Abhivyakti' 2014
5. Students of Marathi Department won first prize in wallpaper competition in Sant Sohirobanath AMBIYE Sant Sahitya Sammelan, organized by Directorate of official Langauges, Govt. of Goa,2015.
6. Pradnya Tari secured on the spot prize for quiz competition in Sant Sohirobanath AMBIYE Sant Sahitya Sammelan organised by Directorate of official Langauges, Govt. of Goa, 2015.

7. Sanjay Salelkar won consolation prize for Abhang Gayan Competition in `Gomantakiya Santsahitya Mahotsav',2016.
8. Vaibhav Kavlekar won consolation prize for Abhang Gayan Competition in `Gomantakiya Santsahitya Mahotsav',2016.

24. List of eminent academicians and scientists/visitors to the department
 - a. Shrimati Aruna Dhere, well known Marathi Writer, Maharashtra, 2009.
 - b. Shri. Sanjay Bhaskar Joshi, well known Journalist, writer, Maharashtra, 2009.
 - c. Shri. Santosh Shenoy, Journalist, Sakal, Maharashtra, 2009.
 - d. Prin. Anil Samant, well known compere, Speaker, and Poet, Goa 2012.
 - e. Dr. Sachin Kandolkar, well known Writer, Goa 2012.
 - f. Shri. Hemant Aiya, Asst. Prof. of Marathi, Govt. College Quepem Goa 2013.
 - g. Shri. Ashok Tilve, Executive committee member, Sane Guruji Kathamala, Goa, 2014.
 - h. Dr. Somnath Komarpant, Well known Critic, Ex. H.O.D., Marathi Department, Goa University, 20 15.
 - i. Dr.Vitthal Thakur, well known writer, Goa, 2016.

25. Seminars/Conferences/Workshops organized & the source of funding
 - a) National -NIL
 - b)International - N.A.
 - c) State Level- Department of Marathi organized a one day State Level Workshop on poetry writing in association with Marathi sahitya sahwas, Marcela on 25th February 2012.

26. Student profile programme/course wise:

Year	Name of the course/Programme	Enrolled		Pass Percentage	
		Male	Female	odd sem.	Even sem
2011- 2012	F.Y.B.A.	5	23	78.5%	53.57%
	S.Y.B.A.	1	24	92%	96%
	T.Y.B.A	Nil	13	92.30%	92.30%
2012-2013	F.Y.B.A.	9	35	72.72%	90.90%
	S.Y.B.A.	2	22	88.46%	80.76%
	T.Y.B.A	1	18	84.21%	84.21%
2013- 2014	F.Y.B.A.	8	15	78.26%	86.95%
	S.Y.B.A.	6	34	92.5%	95%
	T.Y.B.A	Nil	10	100%	100%
2014- 2015	F.Y.B.A.	6	13	78.94%	89.47%
	S.Y.B.A.	6	13	89.47%	89.47%

	T.Y.B.A	1	20	95.23%	85.71%
2015-2016	F.Y.B.A.	4	22	69.23%	92.30%
	S.Y.B.A.	6	9	93.33%	100%
	T.Y.B.A	2	3	80%	80%

27. Diversity of Students

Year	Name of the course	% of students from the same state	% of students from other States	% of students from abroad
2011-2012	U. G.-B.A.	100%	0	0
2012-2013	U. G.-B.A.	100%	0	0
2013-2014	U. G.-B.A.	100%	0	0
2014-2015	U. G.-B.A.	100%	0	0
2015-2016	U. G.-B.A.	100%	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : Nil

29. Student progression:

Student progression	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled	Against % enrolled
Year	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	02	NIL	NIL	04	NIL
PG to M.Phil.	NIL	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL	NIL
Ph.D.to Post-Doctoral	NIL	NIL	NIL	NIL	NIL
Employed	90%	90%	90%	90%	90%
• Campus selection	–	–	–	–	–
• Other than campus recruitment	90%	90%	90%	90%	90%
Entrepreneurship/Self-employment	10%	10%	10%	10%	10%

30. Details of Infrastructural facilities

- Library Books - 1886 Magazines -03
- Internet facilities for Staff and Students - Yes
- Class rooms with ICT facility-LCD facility- Yes
- Laboratories- No

31. Number of students receiving financial assistance from college, university, Government or other agencies

Year	ST	OBC
2011-2012	11	04
2012-2013	09	04
2013-2014	07	03
2014-2015	08	04
2015-2016	03	-

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts:

1. Rarangdhang' by shri. Hemant Aiya on 27th September 2013
2. shyamchi Aai ' by shri. Ashok Tilve on 25th August 2014
3. Santparampara ani Sant.Sohirobanath' by Dr. Somnath Komarpant on 13th March 15
4. Lekhakashi Sanwad by Dr.Vitthal Thakur on 22nd February 2016
5. One day state level workshop on 'Kavitalekhan: Tantra and Mantra 'on 25th February 2012. Resource Persons - Prin. Anil Samant, Dr. Sachin Kandolkar.

33. Teaching methods adopted to improve student learning:
Presentations, visit to Authors village, dialogue with Author on his literature.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: **Nil**

35. SWOC analysis of the department and Future plans

a) **Strength**

Qualified and Experienced faculty.

b) **Weakness**

Students are from rural area, first generation learner, Marathi subject is at Three Unit level.

c) **Opportunities**

Students get employed in educational field and journalism field, To introduce Marathi subject at six unit level.

d) **Challenges**

To create interest about language and literature among Students.

Future Plans

To start short term courses in Marathi

ANNEXURE I

**GOVT. COLLEGE OF ARTS, SCIENCE & COMMERCE,
KHANDOLA-GOA**

Questionnaire for assessment of lecturers by students

Q.1 The lecturer engages lectures

- a) Very regularly b) regularly c) sometimes

Q.2 As regards class control

- a) Very effective b) effective c) lenient

Q.3 In the class, the lecturer's pace of speaking

- a) Too fast b) normal c) slow

Q.4 The lecturer's voice is

- a) Very loud b) clear and well-modulated c) soft

Q.5 The lecturer's explanation of concepts is

- a) Easy to follow b) understandable c) okay

Q.6 In case of difficulties in the subject, the lecturer answers your questions

- a) Clearly b) briefly c) passes it off

Q.7 With reference to explanation of the syllabus the lecturer gives

Examples/problems/exercise/assignments

- a) plenty b) insufficient c) sufficient

Q.8 The lecturer conducts practicals

- a) very regularly b) regularly c) sometimes

**Q.9 With regard to solving difficulties on the subject in the college campus
the lecturer is**

- a) always helpful b) helpful c) sometimes helpful

Q.10 The lecturer completes the portion

- a) early b) in time c) late

Annexure II

**Government of Goa
Govt. College Of Arts, Science & Commerce
Khandola, Marcela-Goa (403107)**

(To be collected from the Final Year Students)

Name:

Class:

Roll No:

Year of joining the College:

1. What do you plan to do after completion of the programme?
2. Which courses/ subjects were the most valuable ones? Why?
3. Which courses were the least useful ones? Why?
4. What important topics were not covered by the subjects/courses?
5. Were the advices received from our teachers helpful and timely?
6. What other comments do you have about your experiences in the college?
7. In what ways has your personality changed as a result of being enrolled in the college?
8. Were your expectations from the college adequately satisfied?
9. Have you made an friendship in the college that you expect to be a lasting one?

10. Would you like to keep in touch with the college after you leave it?

11. In what matters did you interact with the administration of the college?
What was your experience during those interactions?

12. Were you provided with help and training in the use of library and computers?
Was the training useful?

13. What are your comments on the social atmosphere (a) in the college?

(b) in your faculty/Department?

14. What sports and extracurricular activities did you participate in?
Were you satisfied with your participation?

15. Were you able to get required career guidance from your teachers/ Placement Cell

16. Will you join Alumni Association of the college?

17. What are your suggestions for the further improvement of the college?

18. In what way can you help the college to improve?

Date:

National

Year	Sport	Name	M/F	Class	Represented at
2011-12	National Softball competition	Sonam Dalvi	F	FYBCOM	Hydrabad,A.P.
	Inter University Baseball	Shweta Kuvelkar	F	SYBCOM	Cuttak,Orissa
2012-13	N.W.Kabaddi	Sonam Dalvi	F	SYBCOM	
	7 TH National Floorball Championship	Lavina Kurtikar	F	FYBCOM	
	National Athletic . Championship	Vikas Chowdhari	M	FYBCOM	Pune,MH
	7 TH National Floorball Championship	Drohini Gaude	F	FYBCOM	
2013-14	Junior National Tennis Ball Cricket	Avneesh Gaonkar	M	FYBA	
	National Tennis Ball Cricket	Sushant Kerkar	M	FYBCOM	Ranchi, Jarkhand.
	S.Z.N.S.Soft ball National	Anupa Gaude	F	SYBCOM	
	Football West Zone	Sairaj Dhulapkar	M	SYBCOM	Goa University
	Goa University Football West Zone	Saish Kavlekar	M	SYBSC	Goa University
	All India Judo	Drohini Gaude	F	SYBCOM	Goa University
	7 th SR. National Baseball Championship	Sunny Gaude	M	SYBA	Solapur, M.H
	SR.National Tennis Ball Cricket,	Diksha Palni	F	FYBA	Ranchi, Jarkhand
	Federation Cup Soft ball	Sonam Dalvi	F	TYBCOM	Amritsar,Punjab
	Federation Cup Soft ball Championship	Prachi Gosavi	F	SYBSC	Amritsar,Punjab
	West Zone Tennis Ball Cricket Championship	Anish Gaonkar	M	FYBA	Panaji,Goa
	West Zone Tennis Ball Cricket Championship	Giridhar Gaude	M	FYBA	Panaji,Goa
	West Zone Tennis Ball Cricket Championship	Navesh Naik	M	FYBA	Panaji,Goa
	Federation Cup Soft ball Championship	Nassin Khan	M	FYBA	Amritsar,Punjab
2014-15	Junior National Judo Championship	Pundalik Bhamaiakar	M	FYBA	Vadodara,
	SR.National Tennis Ball Cricket Championship	Sushant Kerkar		SYBCOM	Sunder Nagar,H.P.
	S.Z.N.S.Soft Ball	Anupa Gaude		SYBCOM	

	National				
	SR.National Tennis Ball Cricket Championship	Diksha Palni		SYBA	Sunder Nagar,H.P.
2015-16	National Tennis Ball Cricket	Shramesh Gaonkar		FYBCOM	Nagpur ,M.H.
	National Tennis Ball Cricket	Ulpat Shet		FYBCOM	Nagpur ,M.H.
	Junior National Tennis Ball Cricket	Alpita Gaude		FYBCOM	Nagpur ,M.H.
	Junior National Judo Championship	Pundalik Bhamaikar		SYBA	Vadodara, GUJ
	SR.National Tennis Ball Cricket	Diksha Palni		TYBA	Fatehpur ,UP

Intercollegiate events

Year	Sport	Name	M/F	Class	Position
2011-12	judo competition	Mr. Anuj kr. Verma	M	TYBCo m	Bronze medal
		Mr. Trivesh Kurtikor	M	TYBCo m	Bronze medal
		Mr. Terryl Dias	M	TYBCo m	Bronze medal
		Mr. Hanuraj Gaude,	M	SYBCo m	Silver medal
		Mr. Joe Barth Dias	M	SYBSc	Bronze medal
		Mr. Shoam Phadte	M	SYBCo m	Silver medal
		Mr. Sunny Mallik,	M	FYBCo m	Bronze medal
		Mr. Sushant Vaignkar,	M	FYBCo m	Bronze medal
		Miss Neha Tilve	F	TYBSc	Gold medal
		Miss. Trupti Shirke	F	F Y B A	Silver medal
		Miss. Rachita Chodankar	F	TY B A	Bronze medal
		Miss. Vaishali Parab	F	TY B A	Bronze medal
2012-13	judo competition	Miss Drohini gaude,	F	FYBCo m	Gold medal
		Miss Meloiza silvera,	F	SYBCo m	Bronze medal
		Miss Kusum Vishakerma	F	SYBCo m	Bronze medal

		Miss Sonam Dalvi,	F	SYBCo m	Bronze medal
		Miss Trupti Shirke	F	SYBA	Bronze medal
		Miss Lavisha Kurikar	F	FYBCo m	Bronze medal
		Mr Chariston Pereira,	M	SYBSc	Silver medal
		Mr Sushant Vaigankar,	M	SYBCo m	Bronze medal
		Mr Honuraj Gaude,	M	TYBCo m	Bronze medal
201 3-14	judo competition	Miss Drohini gaude,	F	SYBCo m	Gold medal
		Miss Meloiza silvera,	F	TYBCo m	Bronze medal
		Miss Ankita Savoikar,	F	TYBCo m	Bronze medal
		Miss Samanta Dcruz,	F	F Y B A	Bronze medal
		Mr Laukik Phadte,	M	TYBSc	Bronze medal
		Mr Jude Dias	M	TYBCo m	Bronze medal
201 4-15	judo competition	Miss Chaya Ghadi	F	F Y B A	Gold medal
		Miss Anandi Reddy	F	fyBSc	Silver Medal
		Miss Dipti Naik	F	fyBSc	Bronze Medal
		Miss Shanice D,souza	F	FYBCo m	Bronze medal
		Miss Amanda Dias,	F	F Y B A	Bronze medal
		Dattaraj Halankar	M	TYBCo m	Silver medal
201 5-16	judo competition	Miss Ninoshka Dias	F	TYBA	gold Medal
		Miss Anandi Reddy	F	SYBSC	Silver Medal
		Miss Drohini Gaude	F	TYBCo m	Silver Medal.
		Miss Tejasvi Gaude	F	SYBSc	Silver Medal
		Miss Shanice D'Souza	F	SYBCo m	Silver Medal
		Miss Pundalik Bhamaikar	F	SYBA	Silver Medal.
		Miss Latif Khan	M	FYBCo m	Silver Medal.
		Miss Chaya Ghadi	F	SYBA	Bronze

					Medal
		Miss Tanvi Tari	F	TYBSc	Bronze Medal
		Miss Prachi Vaingainkar	F	FYBSc	Bronze Medal
		Miss Samatha D'cruz	F	TYBA	Bronze Medal
2016-17	judo competition	Miss Chaya Ghadi	F	TYBA	GoldMedal
		Miss Anandi Reddy	F	TYBSC	Gold Medal
		Mr. Ganesh Uskaikar		T Y B A	Gold Medal
		Miss Tejasvi Gaude	F	TYBSC	Bronze Medal
		Mr Latif Khan		SYBCo m	Bronze Medals
		Miss Tejas Gaude		SYBCo m	Bronze Medals
		Miss Amay Kawlekar		FYBCo m	Bronze medal

Year	Sport	Name	M / F	Class	Position
2011-12	Athletics:Decathlon High Jump	Mr .sanket jotkar	M	TY B A	Gold medal Silver medal
	Athletics	Mr. Abhijeet Gaoankar	M	FYBCom	silver medal
	High Jump	Ms. Yogita Jalmi	F	SYBCom	Gold medal
	Power Lifting	Mr. Deepak Singh	M	TYBSc	Bronze medal
2013-14	110 mts	Mr. Abhijeet Gaoankar	M	TYBCom	Bronzemedal
	Goblin thow Power lifting	Akash haldankar	M	SYBCom	Silver medal Silver gold
	Power lifting	Mr. Pratik naik	M	SY B A	Silver medal
2014-15	Power lifting	Akash halankar	M	TYBCom	Gold medal
	Power lifting	Amey Tari	M	TYBCom	Bronzemedal
	Taekando	Vishal Ingule	M	FY B A	Bronze medal
	Taekando	Dattarj Halankar	M	TYBCom	Silver medal
	Discus throw	Akash halankar	M	TYBCom	Gold medal
	100 mts hurddles	Mithila akarkar		FYBCom	Bronze medal
2015-16	3 rd National TANG SOO DO Championship	Latif Khan		FYBCom	Gold and Silver Medals
	State Taekwondo	Vaishnavi Bhagat		FYBSc	Silver

	Competition			Medals
	State Taekwondo Competition	Camelon Fernandes		FYBCOM Bronze Medals
	Wt. Lifting Inter Collegiate Competition	Pratee Naik		TYBCom Silver Medal
	Javelin Throw	Sanket Mardolkar		SYBCom Silver Medal
	Taekwondo Inter Collegiate Competition	Camelon Fernandes		FYBCom Gold Medal
		Anandi Reddy		SYBSc Silver Medal
		Manjita Khedekar		TYBSc Bronze Medal
		Thrupti Korlur		TYBSc Bronze Medal
		Latif Khan		FYBCom Gold Medal
2016-17	Physique	Mr. Akash Madkaikar		FYBCom Silver Medal
	Weight Lifting	Mr Deepak Vishwakarma		SYBSc Bronze Medal
	Weight Lifting	Sanket Mardolkar		TYBCOM Bronze Medal

Year	Sport	Name	Position
2013-14	Baseball	Men team	Championship Trophy
		Women Team	Runners Up Trophy
2014-15	Baseball	Women Team	Runners Up Trophy
2015-16	Judo and Taekwondo	Women Team	Runners Up Trophy
	Baseball	men team	championship trophy

Annexure X

REPORT ON KHANDOLA COLLEGE AS A GREEN BUILDING AS PER THE NORMS OF GREEN RATING FOR INTERGRATED HABITAT & ASSESSMENT (GRIHA)

The assessing body i.e. is GRIHA has laid down certain criteria's/ norms which need to be followed during and after construction stages on the basis of which the project is rated as a Green building. As regards to this project the following are the criteria's that have been abided by.

I. SITE PLANNING:

a) Criteria 1: Site selection

- As regards to accessibility of site, easy transportation mode was available as the bus stop is in the close proximity for the college building.

b) Criteria 2: Preservation and protection of landscape during construction /compensatory depository forestation.

- Proper timing of construction and staging of construction was maintained.
- Soil erosion channels and sedimentation tanks were built on site during construction.
- Trees on site were protected.

c) Criteria 3: Soil conservation

- Top soil had been stored and stabilized.
- Measures had been taken for maintaining fertility of top soil which was stacked as per the norms on site

d) Criteria 07: Plan utilities efficiently and optimize on-site circulation

- Aggregated utility corridors were used.
- The services are planned along with the vehicular / pedestrian paths i.e. the sewage and storm water lines run parallel to the compound wall. Thereby avoiding congested planning.

II. BUILDING DESIGN OPTIMIZATION

a) Criteria 06: Enhance outdoor lighting system efficiency

- Automatic controls for 100% outdoor lighting based on timer system is provided.

- To meet the required lighting efficacy LED lighting fixtures are provided for the building thus ensuring power saving.

b) Criteria 13: Optimized building design to reduce conventional energy demand

- Wall to Window Ratio (WWR) as per ECBC proposed is 20.94%.

c) Criteria 14 : Optimized energy performance of building within specified comfort limits

- **Section 1: Heating, Ventilation and Air Conditioning.** : The AC spaces in the college are provided with fixed glass instead of ventilators to ensure efficiency of AC units.
- **Section 3: Lighting:** Automatic Interior lighting controls have been provided as per Energy Conservation Building Code (ECBC) 2007- 7.2.1.1.
- Space lighting controls have been provided as per ECBC 2007- 7.2.1.2.
- Day lighting controls have been provided as per ECBC 2007- 7.2.1.3.
- All exterior lights (except those listed in ECBC 2007- 7.3.4) have automatic controls as per ECBC 2007-7.2.1.4.
- Additional lighting controls have been provided as per ECBC 2007-7.2.1.5.
- **Section 4: Electrical power:** Oil filled transformer with 250 rating KVA is provided which meets ECBC 2007- 8.2.1.1 at 50% and 100% load rating.
- All motors installed in the building mechanical systems comply with ECBC 2007 – 8.2.2.
- Electrical systems have been designed such that these comply with power factor requirements of ECBC 2007 – 8.2.3.
- Check metering and monitoring have been provided as per ECBC 2007 – 8.2.4.
- Sub-meters are provided for monitoring the following viz. Electrical, Internal lighting, External lighting, Space conditioning, Solar PV production etc.

IV. RENEWABLE ENERGY UTILIZATION

- To ensure use of renewable energy, 4KW rated capacity Solar Panel is provided.

III. WATER, WASTE-WATER AND SOLID-WASTE MANAGEMENT

a) Criteria 12: Efficient water use during construction.

- Measures had been taken on site to reduce use of potable water during construction.
- Gunny bags and ponding was done in order to reduce the water consumption.

b) Criteria 21 : Waste water treatment

- Rainwater harvesting tank provided on site to collect the storm water drain.

c) Criteria 22: Reduction in waste during construction

- Measures had been taken on site to reduce waste during construction.

IV. SUSTAINABLE BUILDING MATERIAL & CONSTRUCTION TECHNOLOGY

a) Criteria 15: Utilization of fly ash in the building structure.

- AAC blocks were used for new building and fly-ash bricks for canteen were used with BIS recommended waste content.
- Plain Portland Cement (PPC) was used in plaster and masonry mortar.

b) Criteria 17: Use of Low energy materials

- Low-energy material like Gypsum board / Silicate boards is use in false ceiling/partitions/sub- assembly/panelling/in-built furniture.
- Low flow fixtures are used in the toilets to minimise the consumption of water.

V. HEALTH, WELL BEING & ENVIRONMENTAL QUALITY

a) Criteria 08 : Safety & sanitation facilities for workers

- All construction workers are wearing hard-hats and safety boots during the construction stages.
- Proper safety facilities were provided for the construction workers like safety harnesses, safety nets, gloves etc. depending upon activity
- First aid kit was also provided for the workers.
- Clean drinking water was available for construction workers.
- Toilets were provided to the construction workers.
- Well ventilated labour accommodation was provided for the labourers.

b) Criteria 09: Reduce air pollution during construction

- Sufficient measures were taken on site to control air pollution.
- The site was partly barricaded.
- The wheel washing facility at the entrance was provided.
- The dusty construction materials were covered.

c) Criteria 26: Use of low Volatile Omitting Components (VOC) paints/ adhesives/ sealants

- 100% of all paints used in building interior is low VOC.
- 100% of all adhesives and sealants is low VOC.
- 100% of all composite wood products used do not contain urea-formaldehyde.

d) Criteria 27: Minimize ozone depleting substances

- All insulation used in the building is CFC and HCFC free.
- All AC equipment is CFC free.
- The fire-suppression systems and fire extinguishers is halon free.
- 4 or 5 BEE star rated split AC units and Carbon dioxide based fire extinguishers are provided.

e) C-31 Provide at least the minimum level of accessibility for persons with disabilities

- Buildings is designed in compliance with the National Building Code (NBC) in order to be disabled friendly.
- Partly Ramp is provided for persons with disabilities.
- Toilets should meet the NBC requirements.

NOTE: THE FINAL ASSESSMENT BY THE GRIHA WILL BE DONE ONLY AFTER ONE YEAR FROM THE DATE OF COMMISSIONING OF THE PROJECT. THE COMPLETION DATE OF THE PROJECT AS CONSIDERED BY GSIDC IS 17TH OCTOBER 2015. HENCE, THE FINAL RATING IS YET PENDING.

Annexure Index

Green Audit Report – Annexure X

ANNEXURE VI

EXPENDITURE STATEMENT (NON PLAN)

Major Head/Minor Head & Sub Detailed Head	2011-2012		2012-2013		2013-2014		2014 -2015		2015-2016	
	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.
2202-General Education 03-University & Higher Education 103- Govt. Colleges & Institution 03- Govt. Colleges (NON-PLAN) 01-Salaries	15000000	13034332	19000000	13656830	14000000	1400000	16500000	16500000	17900000	17545243
02- Wages	-	-	-	-	-	-	-	-	-	-
11-T.E.	50000	-	14500	-	-	-	25000	-	40000	29063
13- Office Expenses	800000	383863	500000	397791	500000	441352	500000	446751	600000	556734
21- Supplies & Materials	800000	280956	800000	442027	500000	174246	500000	178264	600000	558227
26- Adv & Pub	50000	-	-	-	-	-	-	-	-	-
28- Prof & Sp.services	-	-	10000	-	-	-	25000	-	-	-
Total	16700000	13699151	20324500	14496648	15000000	14615598	17550000	17125015	19140000	18689267

ANNEXURE VI

EXPENDITURE STATEMENT (PLAN)

Major Head/ Minor Head & Sub Detailed Head	2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.	Budget	Expd.
2202 03 101 01 (PLAN) 01-Salaries	37000000	35969456	36000000	31236460	39600000	39500000	42200000	42000000	45000000	43754681
02-Wages	280000	219308	2900000	224610	600000	548745	730000	687405	495000	384958
11-T.E	50000	644	55000	-	25000	3210	25000	-	10000	8492
13-Office Expenses	1000000	149879	500000	172608	300000	188151	300000	238686	900000	852124
21-Supp. & Material	1100000	419363	800000	518427	500000	213109	500000	442720	700000	503057
26-Adv. & Publicity	50000	30545	70000	67408	25000	13482	25000	9216	28000	15750
28-Prof. & sp. Ser.	1600000	142000	30000	-	-	-	20000	18750	40000	32250
34-Scholarship & Slip	-	-	-	-	-	-	-	-	-	-
50-Other Charges	-	-	-	-	-	-	-	-	-	-
2202 03 800 07(Plan) (A) UGC 01-Salaries	630000	562027	-	-	-	-	-	-	-	-
21-Material & Supplies	300000	49974	3343000	947249	550000	549755	-	-	-	-
13-Office Expenses	-	-	200000	-	-	-	-	-	-	-
50-other Charges	-	-	140500	-	-	-	-	-	-	-
Total	42010000	37543196	44038500	33166762	41600000	41016452	43800000	43396777	47173000	45551312



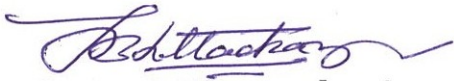
Declaration by the Head of the Institution

The data and information enclosed in this Self Study Report (SSR) are factual and true to the best of my knowledge.

The SSR has been compiled after internal discussions and meetings with the stakeholders. The Institution takes responsibility for all the data presented in this Report. No part of the report was outsourced at any stage of the SSR preparation.

I certify that this SSR is the report of my Institution. I am also aware that the visiting NAAC Peer Team will investigate and validate the data in the SSR.

Date: 28/10/2016
Place: Khandola- Marcela-Goa.


Dr. Jivexa J. Bhattacharjee
(Offg. Principal)
Govt. College of Arts, Science & Commerce
Khandola, Marcela-Goa





Certificate of Compliance

(Affiliated and Recognized Institution)

This is to certify that Government of Goa, College of Arts Science and Commerce, Khandola, Marcela-Goa, fulfils all norms:

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body (UGC) and
3. The affiliation and recognition is valid as on date

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the Institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the College website.

Date: 28/10/2016

Place: Khandola- Marcela-Goa.

Dr. Jivexa J. Bhattacharjee
(Offg. Principal)

PRINCIPAL

(Name and Signature with Official Seal)





2287718

GOVERNMENT OF GOA

GOVT. COLLEGE OF ARTS, SCIENCE & COMMERCE

KHANDOLA, MARCELA - GOA. 403 107

Accredited by NAAC with B+ Grade

GCASCK/EST/NAAC/05/ 1341

29 /10/2009

Ref. No. _____


Date : _____

ORDER

NAAC has proposed to create Internal Quality Assurance Cell (I.Q.A.C.) in Accredited Institutions, with the aim of enhancing quality of the educational institutions.

In view of the above, the undersigned is pleased to constitute the I.Q.A.C. for Govt. College of Arts, Science & Commerce, Khandola consisting of the following members under the chairmanship of Principal, Govt. College, Khandola for the academic year 2009-10 as per the guidelines of NAAC.

1. Principal Bhaskar Nayak - Representative from Management
Director, Directorate of Higher Education, Panaji.
2. Shri V. R. Navelkar, Ex-Librarian, Goa University -Local Nominee
3. Dr. Prakash Vazrikar, Lecturer in Konkani,
NSS Chief Programme Officer, Govt. College, Khandola - Member
4. Dr. T. S. Dey, Director of Physical Education, Govt. College, Khandola. - Member
5. Dr. S. M. Gurav, Reader in Chemistry, Govt. College, Khandola - Member
6. Dr. Mahesh Fai, Lecturer in Psychology, Govt. College, Khandola - Member
7. Shri Anandan Mastan, College Librarian - Member
8. Smt. Usha Arlekar, Head Clerk - Member
9. Mr. Deepak Velip, Accountant - Member
10. Dr. Lucas Miranda, Senior most Lecturer -Co-ordinator


(Dr. Seema P. Rath)
Offg. Principal

- Copy to: 1. All the members of IQAC, Govt. College, Khandola.
2. The Director, Directorate of Higher Education, Junta House, Panaji- Goa.



Ref:1/228/Acad/Gen/2014/167

Date: 10/03/2015

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Government College of Arts, Science & Commerce, Khandola-Goa, is affiliated to the Goa University, since 1989 and recognized by the University Grants Commission and the following Programmes/Courses are taught in the said College, as per approval:

Programme	Courses	Duration	Affiliation	Validity period
Bachelor's Degree in Arts	B.A. Economics (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. Geography (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. English (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. Hindi (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. Konkani (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. Marathi (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. Political Science (3 units)	3 years	Permanent	w.e.f.2003-04
	B.A. Psychology (3 units)	3 years	Permanent	w.e.f.2003-04
Bachelor's Degree in Science	B.Sc. Computer Science (6 units)	3 Years	Permanent	w.e.f. 2006-07
	B.Sc. Chemistry (3 units)	3 Years	Permanent	w.e.f. 2006-07
	B.Sc. Microbiology(3 units)	3 Years	Permanent	w.e.f. 2006-07
	B.Sc. Chemistry (6 units)	3 Years	Temporary	2012-13 to 2014-15
	B.Sc. Microbiology(6 units)	3 Years	Temporary	2012-13 to 2014-15
Bachelor's Degree in Commerce	B.Com.	3 years	Permanent	w.e.f.2004-05

This certificate is issued at the request of the College to produce the same to National Assessment and Accreditation Council, Bangalore.

(Prof. V.P.Kamat)
REGISTRAR

23236351, 23232701, 23237721, 23234116
23235733, 23232317, 23236735, 23239437

www.ugc.ac.in



F.8-132/2005 (CPP-I)

The Registrar,
Goa University,
Taleigao Plateau,
Goa-403 206.

Govt College of Arts, Science and Commerce, Khandola, Marcela - Goa.
Inward No. 1983
Date ... 2/9/06

विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली 110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

August, 2006

24 AUG 2006

Sub:- List of Colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956-
Inclusion of New Colleges.

Sir,

I am directed to refer to letter No. GCACK/EST/AFF/94/311 dated 05.06.2006 received from the College on the subject cited above and to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head Government Colleges teaching upto Bachelor's Degree:-

Name of the College	Year of Establishment	Remarks
Government College of Arts, Science and Commerce, Khandola, Marcela-Goa-403 107. (On permanent affiliation)	1989	The College is eligible to receive Central assistance in terms of the Rules framed under Section 12 (B) of the UGC Act, 1956.

Yours faithfully,

(Mrs. Urmil Gulati)
Under Secretary

Copy forwarded to:-

1. The Principal Government College of Arts, Science and Commerce, Khandola, Marcela-Goa-403 107.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary Education & Higher Education, Shastri Bhavan, New Delhi-110 001.
3. The Secretary, Government of Goa, Department of Higher Education, Panjim (Goa).
4. The Joint Secretary, UGC, Western Regional Office, Ganeshkhind, Poona University Campus, Pune (M.S)-411 007.
5. Publication Officer, UGC-Website, New Delhi.
6. Section Officer (F.D.-III Section) U.G.C., New Delhi.
7. All Sections, U.G.C, New Delhi.
8. Guard file.

(Om Prakash)
Section Officer



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the*

*Government College of Arts,
Science & Commerce
Khandola, Marcela, affiliated to Goa University, Goa as
Accredited
at the B⁺ level.*

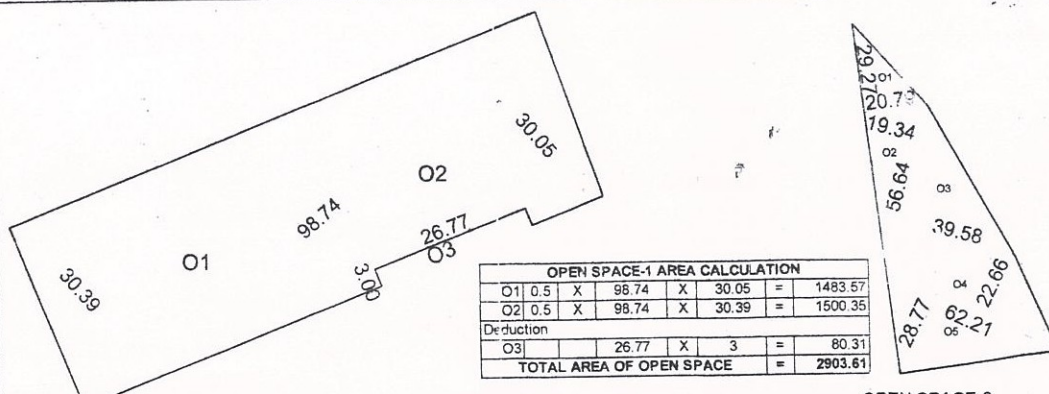
Date : September 21, 2005



*Aravind
Director*

- This certification is valid for a period of Five years with effect from September 21, 2005
- An institutional score (%) in the range of 55-60 denotes C grade, 60-65-C' grade, 65-70-C'' grade, 70-75- B grade, 75-80- B' grade, 80-85-B'' grade, 85-90- A grade, 90-95-A' grade, 95-100-A'' grade (upper limits exclusive)

Annex 3



OPEN SPACE-1 AREA CALCULATION

TOTAL ROAD WIDENING AREA

1) 6.63 MT ROAD WIDENING AREA = 1584.21 SQM
 2) 29.46 MT ROAD WIDENING AREA = 4154.19 SQM

TOTAL ROAD WIDENING AREA = 5738.40 SQM

OPEN SPACE-1 AREA CALCULATION

O1	0.5	X	98.74	X	30.05	=	1483.57
O2	0.5	X	98.74	X	30.39	=	1500.35
Deduction			26.77	X	3	=	80.31
TOTAL AREA OF OPEN SPACE						=	2903.61

OPEN SPACE-2 AREA CALCULATION

O1	0.5	X	10.39	X	14.63	=	76.00
O2	0.5	X	26.32	X	9.67	=	136.63
O3	0.5	X	28.32	X	19.79	=	280.23
O4	0.5	X	31.11	X	11.33	=	176.24
O5	0.5	X	31.11	X	14.39	=	223.84
TOTAL AREA OF OPEN SPACE						=	893.23

OPEN SPACE-2 AREA CALCULATION

O1	0.5	X	10.39	X	14.63	=	76.00
O2	0.5	X	26.32	X	9.67	=	136.63
O3	0.5	X	28.32	X	19.79	=	280.23
O4	0.5	X	31.11	X	11.33	=	176.24
O5	0.5	X	31.11	X	14.39	=	223.84
TOTAL AREA OF OPEN SPACE						=	893.23

AREA OF OPEN SPACE -1 = 2903.61
AREA OF OPEN SPACE -2 = 893.23
TOTAL AREA OF OPEN SPACE (1+2) = 3796.84

AREA STATEMENT

SR. NO.	BUILDING	FLOORS	F.A.R. AREA	TOTAL BHP AREA	COVERAGE AREA
1	CAFETERIA	GROUND	252.39	252.39	252.39
		FIRST	179.62	179.62	
		SECOND	157.16	157.16	
		TOTAL	589.17	589.17	252.39
2	COLLEGE BUILDING	GROUND	1656.82	1656.82	1656.82
		FIRST	1656.82	1656.82	
		TOTAL	3242.18	3242.18	1656.82
3	SCHOOL BLDG.	GROUND	1908.48	1908.48	1908.48
		FIRST	1908.48	1908.48	
		TOTAL	3816.96	3816.96	1908.48
GRAND TOTAL			7648.31	7648.31	3817.69

CAFETERIA BUILDING

S. NO.	FLOOR	F.A.R. AREA	GR. COVERAGE
1	GROUND	252.39	252.39
2	FIRST	179.62	
3	SECOND	157.16	
TOTAL		589.17	252.39

COLLEGE BUILDING

S. NO.	FLOOR	F.A.R. AREA	GR. COVERAGE
1	GROUND	1656.82	1656.82
2	FIRST	1656.82	
TOTAL		3242.18	1656.82

SCHOOL BUILDING

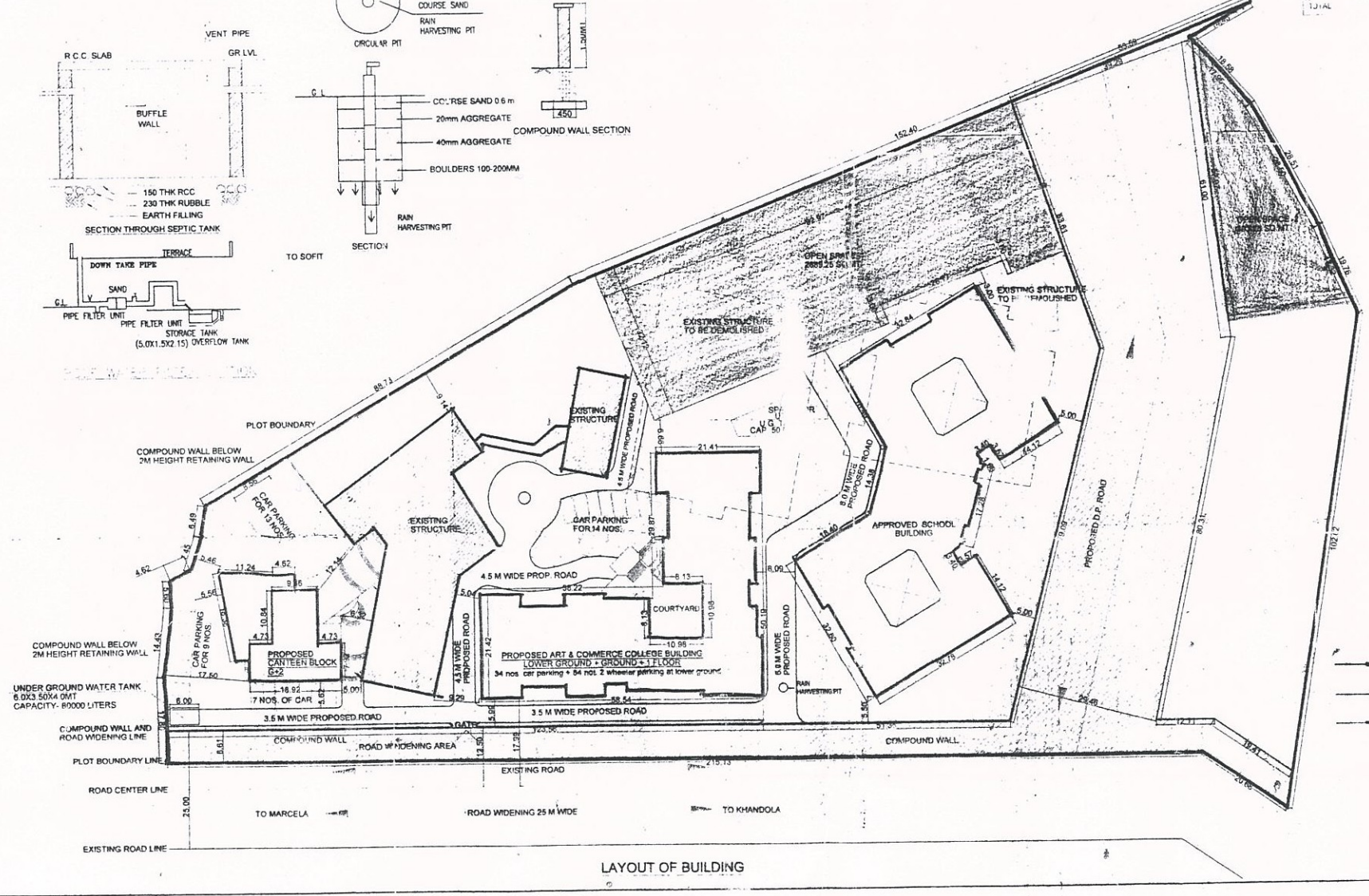
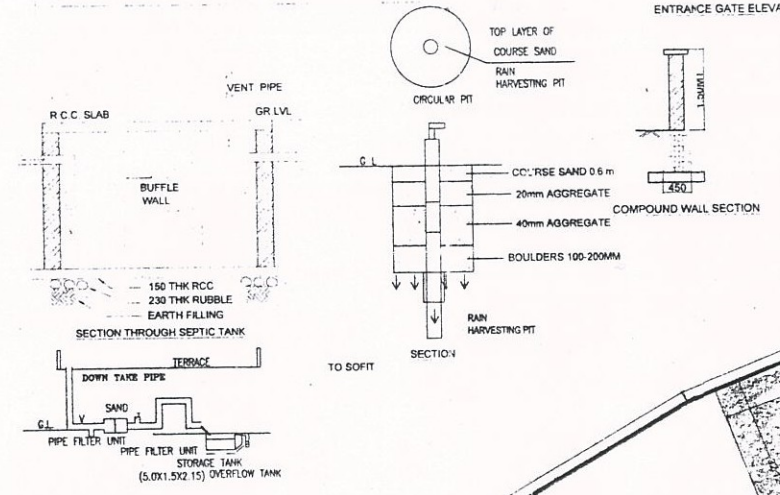
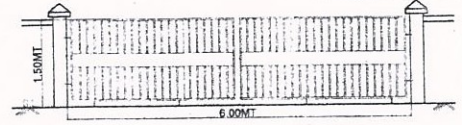
S. NO.	FLOOR	F.A.R. AREA	GR. COVERAGE
1	GROUND	1908.48	1908.48
2	FIRST	1908.48	
TOTAL		3816.96	1908.48

TOTAL BUILDING WISE COVERAGE AREA STATEMENT

BUILDING	AREA IN SQ. METRE
EXISTING BUILDING	1302.00 SQM
APPROVED SCHOOL BUILDING	1908.48 SQM
PROPOSED COLLEGE BUILDING	1656.82 SQM
PROPOSED CAFETERIA BUILDING	252.39 SQM
TOTAL	5119.69 SQM

TOTAL BUILDING WISE FLOOR AREA STATEMENT

BUILDING	AREA IN SQ. METRE
EXISTING BUILDING	2851.34 SQM
APPROVED SCHOOL BUILDING	3816.96 SQM
PROPOSED COLLEGE BUILDING	3242.18 SQM
PROPOSED CAFETERIA BUILDING	589.17 SQM
TOTAL	10500.65 SQM



STAMP OF APPROVAL

Please check letter No. J.P. 18/15/18
 11.12.2018, dated 18/12/18
 regarding the above.

Town Planner
 Town & Country Planning
 Govt. of Goa
 Ponda-Goa.

SR. NO.	AREA STATEMENT	SQM	
1	AREA OF THE PLOT	31,050.00	
2	DEDUCTION FOR		
a)	AREA WITHIN ROAD WIDENING/PROPOSED	1,584.21	
b)	AREA FOR PROPOSED ROAD D.P. ROAD	4,154.19	
3	TOTAL DEDUCTION	5,738.40	
4	EFFECTIVE PLOT AREA	25,311.60	
5	OPEN SPACE PROVIDED	3,796.84	
6	OPEN SPACE PROVIDED	3,796.84	
7	WHETHER ANY EXTRA FAR IS CLAIMED ON THE BASIS OF ROAD WIDENING/PROPOSED ROAD	5,738.40	
8	PERMISSIBLE FAR (47% of 4)	24,690.00	
9	EXISTING BUILDING FAR CONSUMED	2,857.34	
10	APPROVED SCHOOL BUILDING FAR CONSUMED	3,816.96	
11	PROPOSED FAR (COLLEGE + CAFETERIA)	3,831.35	
12	TOTAL FAR CONSUMED	10,505.65	
13	TOTAL FAR CONSUMED IN SAGE (127.4)	1.42	
14	PERMISSIBLE GROUND COVERAGE (33.33% OF EFFECTIVE PLOT AREA)	8,438.36	
15	COVERED AREA OCCUPIED BY THE EXISTING BUILDING IN THE PLOT	1,302.00	
16	APPROVED COVERED AREA OF SCHOOL BUILDING	1,908.48	
17	COVERED AREA OF PROPOSED BUILDINGS	1,909.21	
18	TOTAL PROPOSED COVERED AREA IN SQM	5,119.69	
19	TOTAL COVERED AREA IN 33.33% SAGE	1,974.1	
20	PARKING DETAILS		
	FLOOR AREA	USE	NO. OF GARAGES/PARKING AREA
	CAFETERIA	252.39 SQM	12 NOS
	COLLEGE	3242.18 SQM	162 NOS
	SCHOOL	3816.96 SQM	191 NOS

BRIEF SPECIFICATIONS

- FOUNDATION IS UP TO 1000 STRATA.
- R.C.C. FRAME STRUCTURE WITH REINFORCED CONCRETE.
- 200MM THICK 15MM THICK MASONRY WALL IN C 15 FOR INTERNALS.
- SAND FACE CEMENT PLASTER + MEDIUM FINISHED.
- FLOORING - VITRIFIED TILES FOR CLASSROOM, KITCHEN FOR ENTRANCE LOBBY ETC. ARTIFICIAL FLOORING FOR OT / SUITES.
- ANTI-SKID TILE FLOORING IN TOILETS.
- WATER PROOFING FOR TOILET BUNK & TERRACE LEAD TO SLOPE.
- DOORS & WINDOWS AS PER SCHEDULE.
- FOR INTERNAL WALLS - ACRYLIC EMULSION PAINT, WHITE WASH & IMPERMEABLE OIL BOND DISTEMPER.
- FOR EXTERNAL WALLS - ACRYLIC EMULSION EXTERIOR GRADE PAINT & CEMENT PAINT.
- INTERNAL & EXTERNAL ELECTRICAL WIRING AS PER WORKING DRAWING PER I.E.C.O.D.E.

LEGEND

- PLOT BOUNDARY SHOWN IN BLACK
- PROPOSED STRUCTURE SHOWN IN RED
- OPEN SPACE SHOWN IN GREEN
- WORK PROPOSED TO BE DEMOLISHED/REMOVED SHOWN IN BROWN
- WATER SUPPLY WORK SHOWN IN YELLOW
- DRAINAGE AND SEWERAGE WORK SHOWN IN YELLOW
- DEVIATION SHOWN IN RED BROKEN LINE
- ALTERATION SHOWN IN RED
- CUTTING AND FILLING SHOWN IN RED/YELLOW
- ACCESS TO BLDG. AND ITS REAR SHOWN IN GREEN
- TREES SHOWN IN DARK GREEN

OWNER'S SIGNATURE

Director of Education, Goa
 DIET Complex
 Porvorim - GOA

Director of Higher Education, Goa
 2nd Floor, 5th Floor
 Junta House
 Panaji, GOA

ARCHITECT : KICON - LIMITED FORMERLY KHOROSKAR CONSULTANTS LTD
 FDD HOUSE, 752/1, BRAKTI MARG,
 LAW COLLEGE ROAD,
 PUNE 411004
 INDIA
 Nitin Waghmare
 CA18518783
 Reg. No. Goa: ARD/149/2011

ARCHITECT : RAJIV KHANNA & ASSOCIATES PVT. LTD.
 27, Sakinaka (B), Sakinaka
 TELE / FAX: 020-4038727
 e-mail: rajivkhanna@hotmail.com

DRAWING STATUS

FOR SUBMISSION & APPROVAL

CLIENT : GOA STATE INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED, PANAJI-GOA

PROJECT : PROPOSED CONSTRUCTION OF ART, SCIENCE AND COMMERCE COLLEGE BUILDING & CONSTRUCTION OF NEW GOV. PRIMARY AND SECONDARY SCHOOLS IN STATE OF GOA. (SANGREDDO, PONDOLIM, PANAJI, VILLAGE, SANGREDDO, SANGREDDO)

TITLE : SITE PLAN

KICONS LIMITED
 FORMERLY KHOROSKAR CONSULTANTS LTD
 FDD HOUSE, 752/1, BRAKTI MARG, LAW COLLEGE ROAD,
 PUNE 411004 (INDIA)

JOB NO.	2011007
SCALE	1:500
DON BY	NATRAJ
DRN. BY	VIKAS
CHD. BY	MARINA
DATE	18.10.2011
CO-ORD.	MURTA
APPROVED	
DATE	

DRAWING NO. KCOLLEGEATP01
REV. R2