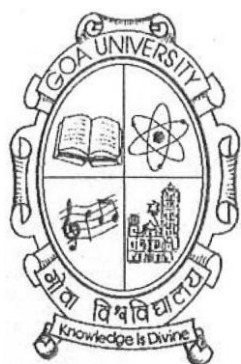


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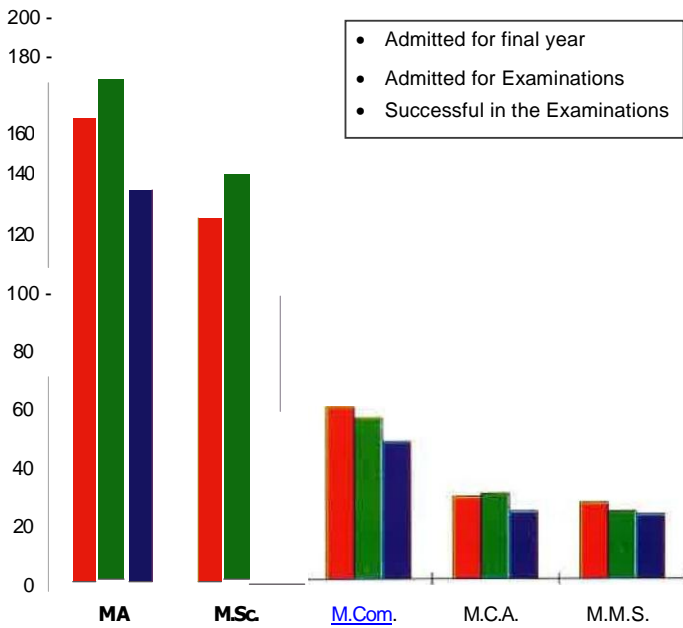
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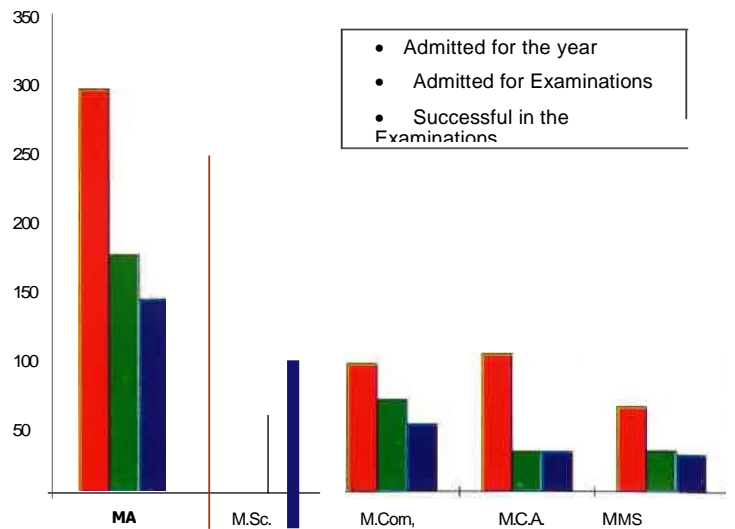


GOA UNIVERSITY

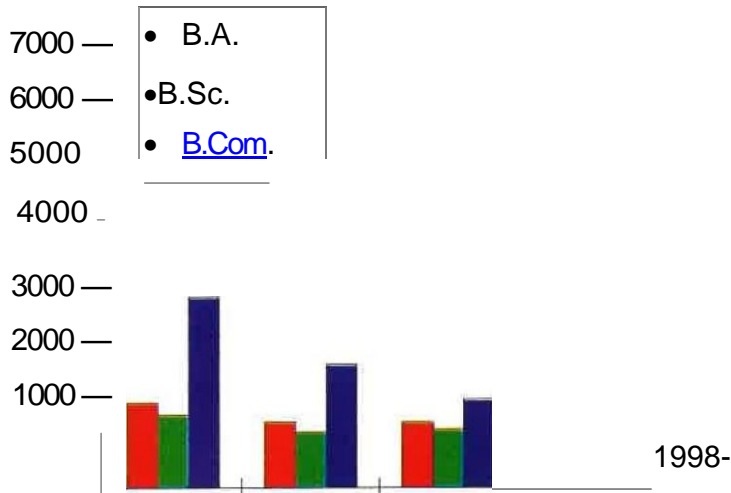
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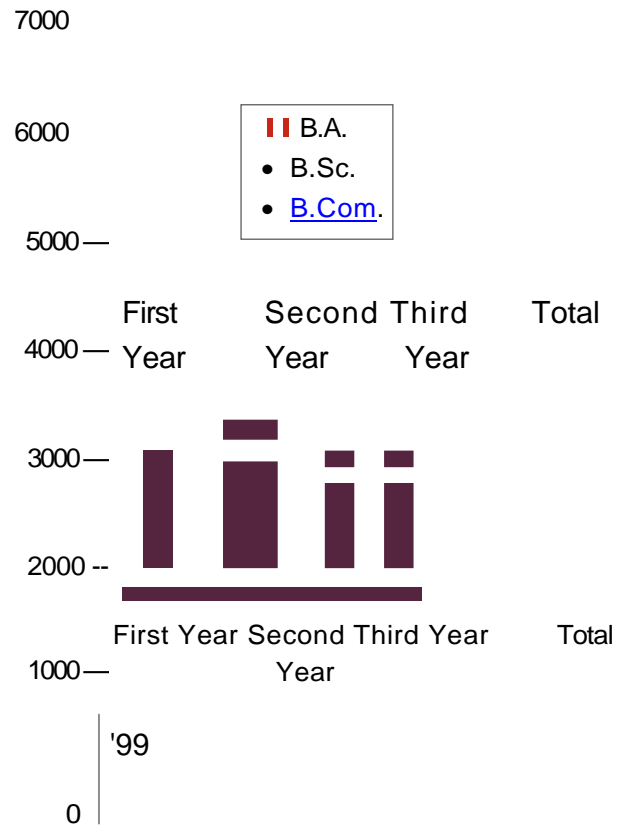
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1998-'99



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GOA UNIVERSITY

VISITOR

H.E. GOVERNOR OF GOA

VICE -CHANCELLOR

PROF. B. S. SONDE

DEANS OF FACULTIES

www.goauniversity.ac.in

Languages and Literature

PROF. O.J.F.GOMES

Social Sciences

PROF. K.M.MATHEW (Upto 31/01/1999)

PROF. M.A.SHAHI (From 01/02/1999)

Natural Sciences

PROF. A.G.DESAI

Life Sciences and Environment

PROF. U.M.X.SANGODKAR

Management Studies

PROF. A. SREEKUMAR

Medicine

PROF. B.N.REDDY

Engineering & Architecture

PROF. CHO PADAMSE

REGISTRAR

PROF. D.V.BORKAR

PREFACE

It gives me great pleasure in presenting the Fourteenth Annual Report of Goa University for the academic year 1993-99. The Report is presented in six parts. Part 1 - General Administration, Part 2 - Authorities of the University, Part 3 PG Departments/Centres on the University Campus, Part 4 - Affiliated Colleges, professional and General, Part 5 - Recognized Institutions and Part 6 - Financial Statement.

The Report has been compiled by the University, based on the information provided by the various administrative sections, PG Departments/Centres departments, affiliated Colleges and Recognized Institutions. It has been our experience that the process of collecting information is time consuming and as well as difficult. Besides the information obtained is often incomplete. This has caused difficulties in the editorial work, leading to delays in finalization of the Report. It will be helpful, if all the concerned sectors of our University give a prompt response and provide complete information to the Editorial Committee in the future, so that the Annual Report is brought out in time and is also complete in all respects. '

The bygone year has been another important year in the consolidation and build up of the academic and research activities at the University. New academic programmes were launched in this year; e.g., PG Diploma in Applied Plant Sciences (Dept. of Botany), Master of Laws (Faculty of Law), B.Sc.(Vocational) in Biotechnology and in Industrial Chemistry (affiliated Colleges and proposals for new programmes and facilities were made to the University Grants Commission and other funding agencies. The University participated in a major Indo-French scientific programme, viz., Indian Ocean Experiment (Ind^o Ex), under which more than 20 instrumented high altitude balloons for upper atmospheric data collection/analysis were launched from the University campus during Jan-Feb. 1999, so as to understand the Indian monsoons. Many new academic and other buildings, laboratory equipment and facilities were added to the University campus in this period. The University also received its IX Plan allocation of funds from the UGC in this period as well as a special grant from the Planning Commission.

I express my sincere gratitude to H.E. Governor of Goa and Visitor, Goa University for the keen interest he has shown in the functioning of the University.. I am extremely thankful to the State Government for all the continued support in the implementation of the objectives. I also thank the University Grants Commission and the Planning Commission for the IX Plan grants allocated to the University. I also place on record my sincere thanks to the members of Court, Academic Council, Executive Council Planning Board and other Bodies of the University for their understanding and cooperation.. My grateful thanks are also due to all the teaching and non-teaching staff members and students of the University for making 1995-99 yet another successful year.

Taleigao Plateau
March 2000

Professor B. S. Sonde
Vice-Chancellor

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PART 1: GENERAL ADMINISTRATION

1.1 General Information:

GOA University has completed fourteen years since its establishment on 1st June 1985. It is an affiliating-cum-teaching University having facilities to impart education in faculties of Languages and Literature Social Sciences, Natural Sciences, Life Sciences, Commerce, Management, Medicine, Engineering and Fine Arts. The University offers graduate and post-graduate courses in Arts, Science, Commerce, Management, Home Science, Education, Law, Engineering, Pharmacy, Medicine including Homeopathy and Ayurveda, Fine Arts, Music and Architecture. There are twenty-two University Teaching Departments, three University Centres, U. G. C. financed Academic Staff College for in-service-training of teachers, 42 affiliated colleges (professional & general) and 5 recognised institutions conducting research.

1.2 Engineering Projects: In its effort to improve the Infrastructure of the University, the plinth area of about 10000 m² is added during the year. This includes the completion of following buildings.

1. Building for Faculty of Management.
2. Building for Centre for Latin American Studies.
3. Building for 200 Bedded Hostel for Women Students.
4. Construction of 15 residential flats for the Professors and Readers.
5. Construction of 25 residential flats for the Lecturers.

The University also took up the Construction of Road, funded through M. P's. Local Area Fund, for the improvement of the roads within the University Campus.

1.3 Computerisation of University Functions: The Computer Centre has computerised the students Registration system of the University from the Academic year 1998-'99. Every student of the University has been issued with a laminated student's Registration card bearing a unique registration number.

1.4 Conduct of Examinations: The University has conducted 238 under-graduate and post-graduate examinations in various faculties during the first and second half of 1998-99. 9514 students appeared for the examinations, and out of these, 6326 were declared successful.

The University awarded 12 Ph.D degrees in different subjects during the academic year 1998-'99.

1.5 University Library: To the existing collection of 82,122 books, the library added 1996 books during the academic year 1998—'99. It has also subscribed to 199 Foreign Journals and 325 Indian Journals, apart from many journals received on gratis. Having recognised as a U. N. Depository Centre, the library has a valuable collection of United Nation's Publications and World Health Organisation's Publications.

Book Exhibition A book exhibition on Latin American Studies was arranged on 05/03/1999 and the same was inaugurated by His Excellency, The Governor of Goa.

Career Information Centre A Career Information Centre has been opened in the library for the benefit of the students.

Lecture: A lecture on Current Developments in Information Retrieval and Dissemination was delivered by Dr. T. B. Rajashekhar, Vice-Chairman, National Centre for Science Information, IISc, Bangalore on 25/03/1999.

Workshops Attended (Name, Theme, Ograniser/Place, Dates)

P. V. Konnur, *Review Committee Meeting of the UGC's INFLIBNET*, 17/02/1999 and 18/02/1999.

P. V. Konnur, *Academic Libraries Conference the CALIBER*, Nagpur University, 18/02/1999 to 20/02/1999.

P. V. Konnur, *Training Workshop on "Use of IT to access Social Science Information*, NASSDOC, New Delhi and IISc, Bangalore, 10/03/1999 to 13/03/1999.

1.6 Students' Sports Activities: Sports Section of the University organised the Inter-Collegiate tournaments in the following events separately for men and women and medals were distributed.

Team Events (Name of the Sports, **Position**, College)

Best March Past Trophy , Bandekar College Mapusa	Cycling (Men), Runners , Chowgule College, Margao
3" Rank, Over-all points , Bandekar College Mapusa	Football (Women), Winners , Carmel College, Nuvem.
Athletics (Men), Winners , Saraswat College, Mapusa	Football (Men), Winners , Fr. Agnel College, Pilar
Athletics (Men), Runners up , Govt. College Sanquelim	Football (Women), Runners up , Rosary College, Navelim
Athletics (Women), Winners , Govt. College Quepem	Football (Men), Runners Up , Bandekar College Mapusa
Athletics (Women), Runners up , Carmel College Nuvem	Handball (Men), Winners , Bandekar College Mapusa
Badminton (Men), Winners , Dhempo College, Miramar	Handball (Men), Runners Up , St. Xavier's College, Mapusa
Badminton (Men), Runners Up , Engineering, Farmagudi	Handball (Women), Runners Up , Damodar College, Margao
Badminton (Women), Winners , V. M. Salgaonkar College of Law, Panaji	Hockey (Men), Winners , St. Xavier's College, Mapusa
Badminton (Women), Runners Up , St. Xavier's College, Mapusa	Hockey (Men), Runners up , Fr. Agnel College, Pilar
Basket Ball (Men), Winners , Chowgule College, Margao	Hockey (Women), Winners , Bandekar College, Mapusa
Basket Ball (Men), Runners Up , Damodar College, Margao	Hockey (Women), Runners up , Govt. College Quepem
Basket Ball (Women), Winners , Carmel College, Nuvem	Judo (Men), Winners , Govt. College, Quepem
Basket Ball (Women), Runners-up , Post Graduate Body Building, Team Championship , Fr. Agnel College, Pilar	Judo (Men), Runners up , Saraswat College, Mapusa & V.M. Salgaonkar College of Law, Panaji
Chess (Mix), Winners , Goa Medical College, Bambolim	Judo (Women), Winners , P.E.S. College, Ponda
Chess (Mix), Runners-up , MES College, Zuarinagar	Judo (Women), Runners Up , Govt. College, Quepem
Cricket (Men), Winners , Engineering, Farmagudi	Kabaddi (Men) Winner , Mallikarjun College, Canacona
Cricket (Men), Runners-Up , Dempo College, Panaji.	Kabaddi (Men), Runners-up , Zantye College, Bicholim
Cricket (Women), Winners , G.V.M. College, Ponda	Kabaddi (Women) , Winners , Zantye College, Bicholim
Cricket (Women), Runners-Up , Chowgule College, Margao	Kabaddi (Women), Runners up , Mallikarjun College, Canacona
Cross Country (Men), Winners , Naval Academy, Verem	Kho-Kho (Men), Winner , Mallikarjun College, Canacona
Cross Country (Men), Runners up , Govt. College, Quepem	Kho-Kho (Men), Runners up Govt College Sanquelim
Cross Country (Women), Winners Govt. College, Quepem	Kho-Kho (Women) Winner , GYM College, Ponda
Cross Country (Women), Runners up , Rosary College, Navelim	Kho-Kho (Women), Runners up , Govt College Sanquelim
Tennis (Men) Winners , Damodar College, Margao	Volleyball (Men), Winners , MES College, Zuarinagar
Tennis (Men) Runners up , Chowgule College, Margao	
Cycling (Men) Winners , Govt. College, Quepem	Volleyball (Men), Runners up , Dempo College,

Power Lifting (Men), Gold, St. Xavier's College, Mapusa
 Power Lifting, Gold, MES College, Zuarinagar
 Power Lifting, **Runners up**, Govt. College of Quepem
 Physique, **Winners**, Fr. Agnel College, Pilar
 Physique, **Runners up**, Govt. College Quepem
 Swimming (Men), **Runners Up**, Govt. College Quepem
 Swimming (Women), **Winners**, St. Xavier's College, Mapusa
 Swimming (Women), **Runners up**, Engineering College, Farmagudi
 Swimming (Men), **Winners**, Engineering College, Farmagudi
 Table Tennis (Men), **Winners**, Dhempo College, Panaji
 Table Tennis (Men), **Runners Up**, MES College, Zuarinagar
 Table Tennis (Women), **Winners**, St. Xavier's College, Mapusa
 Table Tennis (Women), **Runners Up**, MES College Zuarinagar
 Tennikoit, **Winners**, Carmel College, Nuvem
 Tenni-koit (Women), **Runners-up**, GYM College, Ponda
 Tripple Jump (Men), **Winners**, Govt. College, Sanquelim
 Tripple Jump (Men), **Runners up**, St. Xavier's College, Mapusa
 Volleyball (Men), **Winners**, MES College Zuarinagar

Volleyball (Women), **Winners**, St. Xavier's College, Mapusa
 Volleyball (Women), **Runners Up**, Carmel College, Nuvem
 Weight Lifting (Men), **Gold**, St. Xavier's College, Mapusa
 Weight Lifting, **Silver**, MES College, Zuarinagar
 Weight Lifting, **Runners up**, Govt. College, Quepem
 4 x100 m. relay, **Gold**, Damodar College, Margao
 4x100 m Relay, **Bronze**, Bandekar College, Mapusa
 4x400 Mts. (Men), **Winners**, Saraswat College, Mapusa
 4x400 Mts. (Men), **Runners up**, Govt. College, Sanquelim
 4x400 Mts. (Women), **Winners**, Carmel College, Nuvem
 4x400 Mts. (Women), **Runners up**, Govt. College, Quepem
 4x100 Mts. (Men), **Winners**, Damodar College, Margao
 4x100 Mts. (Men), **Runners up**, Saraswat College, Mapusa
 4x100 Mts. (Women), **Winners**, Govt. College, Quepem
 4x100 Mts. (Women), **Runners up**, Carmel College, Nuvem

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Individual Events (Name, Medal, Sports, College)

Aida Colima°, **Silver**, *100 Mts. Run*, Govt College, Sanquelim
 Aida Colimao, **Bronze**, *200 Mts. Run*, Govt College, Sanquelim
 Akhilanand Mhalatkar, **Bronze**, *Swimming (100 m. backstroke)*, Dhempo College, Miramar
 Amit Borkar, **Bronze**, *High Jump*, MES College, Zuarinagar
 Amol Kamble, **Silver**, *110 Mts. Hurdles*, Govt College, Sanquelim
 Amol Kamble, **Silver**, *800 Mts. Run*, Govt College, Sanquelim
 Amol Kamble, **Silver**, *1500 Mts. Run*, Govt College, Sanquelim
 Amol Kamble, **Silver**, *400 Mts. Relay*, Govt College, Sanquelim
 Anisa Begum, **Gold**, *Women's Shot Put*, Damodar College, Magrao
 Andrew Clement, **Gold**, *Cycling*, Govt. College, Quepem
 Akhilanand Mhalatkar, **Bronze**, *100 Mts. Back Swimming*, Dhempo College, Miramar
 Panaji

Clemento Andrew, **Silver**, *Cross Country*, Govt. College, Quepem
 Debora Lobo, **Gold**, *High Jump*, Bandekar College, Mapusa
 Debora Lobo, **Bronze**, *Long Jump*, Bandekar College, Mapusa
 Debora Lobo, **Silver**, *Javelin Throw*, Bandekar College, Mapusa
 Damodar Verlekar, **Gold**, *Cross Country*, Fr. Agnel College, Pillar
 Irfan Dawood, **Silver**, *Body Lifting*, MES College, Zuarinagar
 Evan Martin, **Silver**, *Pole Vault*, Damodar College, Margao
 Ely Rodrigues, **Silver**, *Swimming 50 Mts. Free style*, St. Xavier's College, Mapusa
 Ely Rodrigues, **Silver**, *Swimming 50 Mts. Back stroke*, St. Xavier's College, Mapusa
 Ely Rodrigues, **Silver**, *50 Mts. Breast*, St. Xavier's College, Mapusa
 Jivan Bandekar, **Best JUDOKA**, *Judo*, GYM, College, Ponda

Kalpesh Pilgaonkar, **Silver**, *Power Lifting*, Govt College, Sanquelim

Milagrina Sequeira, **Gold**, *Javalin Throw*, MES College, Zuarinagar

Milagrina Sequeira, **Silver**, *Discuss Throw*, MES College, Zuarinagar

Milagrina Sequeira, **Bronze**, *Shot Put*, MES College, Zuarinagar

Maria Comes, **Gold**, *Cross Country*, Rosary College, Navelim

Marcelinho Coelho, **Bronze**, *Cross Country*, Saraswat College, Mapusa

Mayur Gaitonde, **Silver**, *Swimming 100 Mt Back*, St. Xavier's College, Mapusa

Mayur Gaitonde, **Bronze**, *Swimming 100 Mt free*, St. Xavier's College, Mapusa

Milagres Gaunkar, **Bronze**, *Cross Country*, St. Xavier's College, Mapusa

Nandakumar Pilgaonkar, **Silver**, *5000 Mts. Race*, Govt College, Khandola

Nandakumar Pilgaonkar, **Bronze**, *10,000 Mts. Race*, Govt College, Khandola

Nisha Madgaonkar, **Gold**, *Swimming 50 mts.free style*, St. Xavier's College, Mapusa

Nisha Madgaonkar, **Gold**, *Swimming 50 Mts. Back stroke*, St. Xavier's College, Mapusa

Nisha Madgaonkar, **Gold**, *Swimming 50 Mts. Breast*, St. Xavier's College, Mapusa

Preetesh Rodrigues, **Silver**, *Swimming 100 Mts. Free*, GVM College, Ponda

Precila Dias, **Silver**, *Women's Shot Put*, Damodar College, Mrgao

Rajesh Job, **Individual Champion** (Men), Govt College, Sang uelim

Rajesh Job, **Gold**, *110 Mts. Hurdles*, Govt College, Sanquelim.

Rajesh Job, **Gold**, *400 Mts. Run*, Govt College, Sanquelim.

Rajesh Job, **Gold**, *200 Mts. Run*, Govt College, Sanquelim.

Rajesh Job, **Silver**, *Triple Jump*, Govt College, Sanquelim.

Rajesh Naik, **Silver**, *Shot Put*, Bandekar College, Mapusa

Rajesh Vishnu Nanoskar, **Bronze**, *Cycling*, Chowgule College, Margao

Rahul Lotlikar, **Silver**, *Swimming 100 mts.Breast*, Padre College, Verna

Sushant Kudav, **Silver**, *100 m Sprint*, Bandekar College, Mapusa

Sushant Kudav, **Bronze**, *200 m Sprint*, Bandekar College, Mapusa

Suraj Prabhu Desai, **Silver**, *Cycling*, Govt. College, Quepem

Shweta Bhandari, **Bronze**, *Swimming 50 Mts. Free style*, Padre College, Verna

Shweta Bhandari, **Bronze**, *Swimming 50 mts. Back stroke*, Padre College, Verna

Shweta Bhandari, **Bronze**, *Swimming 50 Mts. Breast*, Padre College, Verna

Sushma Ghadi, **Best JUDOKIST**, PES College, Farmagudi

Twinkle Fernandes, **Best Individual Athlete** (Women), Bandekar College, Mapusa

Twinkle Fernandes, **Iron Woman of Goa University**, Bandekar College, Mapusa

Twinkle Fernandes, **Gold**, *400 m Run*, Bandekar College, Mapusa

Twinkle Fernandes, **Gold**, *400 m hurdles*, Bandekar College, Mapusa

Twinkle Fernandes, **Gold**, *Heptathlon*, Bandekar College, Mapusa

Twinkle Fernandes, **Gold**, *Long Jump*, Bandekar College, Mapusa

Tome Menezes, **Iron Man of Goa University**, Bandekar College, Mapusa

Tome Menezes, **Gold**, *Decathlon*, Bandekar College, Mapusa

Tome Menezes, **Silver**, *Hammer Throw*, Bandekar College, Mapusa

Uday Madar, **Gold**, *Swimming 100 Mt free*, Govt. College, Quepem

Uday Madar, **Bronze**, *Swimming 100 Mt. Breast*, Govt. College, Quepem

Vanita Verekar, **Silver**, *Cross-Country Race*, GYM College, Ponda

Vishal Dessai, **Gold**, *Swimming 100 Mts. Back*, Padre College, Verna

Vishal Dessai, **Gold**, *Swimming 100 Mts. Breast*, Padre College, Verna

Vanita Verekar, **Silver**, *Cross Country*, GYM College, Ponda

Yogesh Parab, **Best Individual Athlete**, Damodar College, Margao

Yogesh Parab, **Gold**, *100 Mt. Sprint*, Damodar College, Margao

Yogesh Parab, **Gold**, *200 Mts. Sprint*, Damodar College, Margao

Yogesh Parab, **Silver**, *400 Mt. Run*, Damodar College, Margao

Participation Inter-University tournaments: Goa University's **women football** team secured the **Runners-up** position at the all India Inter-University football tournament 1998-'99 held at Amritsar. Goa University's **Badminton** (Men) secured the fourth position at the West Zone Inter-University Badminton tournament 1998-'99 held at Nasik.

During the academic year 1998-'99, Goa University participated in Cricket (Women), Cross Country Race, Swimming (Women), Weight Lifting, Power Lifting and Best Physique at the All India Inter-University Tournaments and Cricket (Men) and Khabadi (Men) at the West Zone Inter-University Tournaments.

Intra-Mural sports were also conducted for the Post Graduate students of Goa University. Goa University's IVth all Goa Open Cricket tournament was also conducted very successfully during this year.

Avertino Baretto, *Assistant Sports Officer*

1.7 Student's Welfare and Cultural Activities: Directorate of Students' Welfare & Cultural Affairs undertakes curricular, co-curricular and extra-curricular activities of the students of Goa University and thereby creates opportunity to the students to develop their talents in various fields of Art and Culture, viz, music, dance, dramatics, literature, fine art etc. The Directorate also encourages the students to undertake social activities in order to enable them translate their knowledge into utility. The Directorate organises various programmes cultivating a sense of togetherness among the students. It also acts as a liaison agency for smooth interaction between the students and University authorities, other Universities, Government, semi-Government and voluntary institutions. Goa University has constituted the following students-bodies, in order to administer the activities of the students.

1. Goa University Students' Council comprising the representatives of the affiliated colleges.
2. Post-graduate Students' Union comprising the representatives of the faculties of the post-graduate departments.

Activities: Organised Inter-collegiate Youth Festival in February, 1999. Organised Inter Faculty Youth Festival for P. G. students in January 1999. Participated in National Debating Competition organised by Indian Council of World Affairs, New Delhi, December 1998, and secured third position. Organised "Know each other" Programme with the students of University of Kashmir, Srinagar, in March 1999.

Earn while you Learn: Needy P. G. Students are engaged under this scheme for petty academic jobs on the campus and paid certain remuneration towards their Contribution.

Students Aid Fund: A financial assistance is given to the deserving P.G. students to meet their expenditure towards tuition fee, examination fee, books etc (maximum Rs. 1,500/4

Students Safety Insurance: All Students (PG & UG) of Goa University are covered under Students Safety Insurance Scheme and are entitled to receive insurance benefits under the scheme.

T.D.Halarnkar, Ph.D., *Director Of Student Welfare*

1.8 Konkani Encyclopaedia: The University has undertaken a project of preparation of Konkani Encyclopaedia to cater to the needs of the scholars as well as of the common man knowing Konkani. The first two volumes are released earlier years and the third and fourth volumes are in the press and are expected in 1999.

T. D. Harlamakar, Ph.D. *Executive Editor*

1.9 Academic Staff College

F. A. Fernandes, Ph.D., *Director*

Ms P. Rebeiro, Ph.D., *Reader*

Senior Professors and well-known Scholars in different fields from other Universities besides the faculty members of the Goa University are invited to deliver Lectures in various courses. The following Orientation and Refresher courses were conducted:

48" *Orientation Programme*, 28/07/98 — 24/08/98

49" *Orientation Programme*, 18/01/99 — 15/02/99

50th *Orientation Programme*, 20/02/99 — 20/03/99

51' *Orientation Programme*, 14/05/99 — 10/06/99

I Refresher Course in Marathi, 03/06/98 — 23/06/99

XI Refresher Course in History, 01/07/98 — 22/07/98

III Refresher Course in Microbiology, 02/09/98 — 22/09/98

III Refresher Course in Botany, 09/09/98 — 29/09/98

III Refresher Course in Zoology, 06/10/98 — 27/10/98

IV Refresher Course in Chemistry, 02/11/98 — 23/11/98

I Refresher Course in Commerce, 20/11/98 — 10/12/98

II Refresher Course in Commerce, 09/04/99 — 29/04/99

II Refresher Course in Mathematics, 24/11/98 — 15/12/98

VII Refresher Course in English, 27/01/99 — 16/02/99
 XII Refresher Course in Political Science, 03/05/99 — 24/05/99
 1 Need-based Refresher Course in Earth Sciences, 21/10/98 — 10/11/98
 1 Need-based Refresher Course in Library & Information Science, 15/04/99 — 05/05/99
 I Intensive Course in Electronic Equipment Maintenance., 12/10/98 — 14/10/98
 I Intensive Course in Computer Maintenance., 15/10/98 — 17/10/98
 II Intensive Course in Computer Maintenance., 22/03/99 — 26/03/99
 1-day Orientation Course for non-teaching staff of Goa University (Batch II), 19/08/98
 2-day Orientation Course for non-teaching staff of Goa University (Batch I) , 20/08/99 — 21/08/99
 1-day Orientation Course for non-teaching staff of Goa University (Batch I), 09/03/99
 1-day Orientation Course for Officers of Goa University., 27/03/99
 2-day Orientation Course for Non-teaching staff of Goa University (Batch II), 17/05/99 — 18/05/99

The ASC also monitored two Workshops at two different Centres in Goa in view of the Restructured Syllabi.

1.9.5 Seminars/Conferences/Workshops etc.

(a) **Organised:** (Theme, Dates, Funding Agency, Name of Department)

Seminar Curriculum of Orientation Programmes, 25/06/1998, ASC.
 Workshop for lecturers of Computer Science, 07/07/1998, Goa University, ASC & Dept. of Computer Science & Technology, Goa University.
 Workshop on "Vocationalization at First Degree level", 03/08/1998, ASC.
 Workshop on "Tutor System" & "Active Learning", 04/08/1998, ASC.
 Workshop on "How to set question papers for University exams" (for teachers with less than 8 years' experience), 21/01/1998 and 22/01/1999, Goa University.
 Workshop on "How to set question papers for University exams" (for teachers with 8 years experience and more), January 23/01/1999 to 25/01/1999, Goa University.
 Seminar on "Rethinking Institutions: India & Canada ", 26/03/1999, Shastri Indo Canadian Institute, New Delhi.

1.9.6 (a) Publications (Research Articles): (Name of Teacher, Title, Journal, Volume, Month/Year)

P. Rebeiro, *Study of Attitude of Teachers towards their profession*, **The Progress of Education**, LXXIII, No. 6 pp. 128-132, January, 1999.
 P. Rebeiro, *Personality factors of Teachers belonging to Higher Education*, **Journal of Educational Research & Extension**, 35 —4, pp. 36-42, October — December, 1998.

1.10 Research and Development and Resources Mobilisation Cell: Over 105 Research and Development Projects and Consultancies are handled by the faculty members of Goa University funded by various Organisations such as Council of Scientific and Industrial Research (CSIR), Department of Science & Technology (DST), University Grants Commission (UGC), Department of Ocean Development (DOD), Atomic Energy Regulatory Board (AERB), Ministry of External Affairs (MEA), German Organisation for Technical Co-operation for Research, Department of Biotechnology (DBT), Goa State Council for Science & Technology, Rajiv Gandhi Drinking National Water Mission Mord (RGNDWM), Department of Environment and Forest Wild Life (DOEF), Indian Council of Agricultural Research (ICAR) and other Public Foundations of which 51 are Ongoing and are at various stages of completion amounting to Rs. 3,12,68,709.00.

In the year 1998-99 alone 11 Projects had been sanctioned to the Departments of Mathematics, Botany, Marine Sciences & Biotechnology, Chemistry, Centre for Latin American Studies, Computer Science and Sociology of which three were Consultancies. The total grants in this year was Rs. 75,46,101.00 from DST, DBT, DOD, AERB, UGC, MEA, AICTE, TERI, Phil Corporation.

U.M.X.Sangodkar, Professor In-charge
P.R.Sarode, Member

A.G.Balasubramaniam, Member

1.11 College Development Council: A college Development Council is established in Goa University to establish liaison between affiliated colleges and University/UGC for proper development of the colleges, to prepare short-term/long-term plans for the development of under-graduate education, to

assist the colleges in their development through UGC assistance by identifying suitable areas providing information about schemes available and assisting in preparing proposals and their follow-up and to conduct periodic inspection & review of colleges with a view to assess the performance and suggest improvements. The Council consists of the following members.

- | | |
|---|--|
| B. S. Sonde Vice-Chancellor, Goa University,
<i>Chairman.</i> | S. J. Godse , Lecturer, Dhempe College, <i>Member.</i> |
| D. V. Borkar , Registrar, Goa University,
<i>Member</i> | Radhika S. Nayak , Lecturer, Cannel College,
Nuvem, <i>Member.</i> |
| A. G. Desai , Dean, Faculty of Life Sciences, Goa
University, <i>Member</i> | The Director , Directorate of Higher Education,
Goa, <i>Member.</i> |
| J. F. Comes , Dean, Faculty of Languages, Goa
University, <i>Member.</i> | Dattaraj V. Salgaocar , President, Goa Chamber
of Corn. & Industry, <i>Member.</i> |
| B. A. Gomes , Principal, Govt. College,
Sanquelim Goa, <i>Member.</i> | Anil Ither , Vice-President, Goa Small Industries
Association, <i>Member.</i> |
| V.R. Shirgurkar , Principal, Chowgule College,
Margao, <i>Member</i> | G. G. Mayekar , Director, College Development
. Council, <i>Member Secretary</i> |

All the eight colleges that were receiving UGC development grants in the 8th plan were sanctioned UGC development grants of the 9th plan period and received 8 instalments of the sanctioned grants. In all 13 colleges affiliated to the University are sanctioned UGC development grants under 9th Plan. Chowgule College of Arts & Science, Margao received construction grant from the UGC for building a Canteen Building and Shree Damodar College, Margao received construction grant for establishing a Computer Lab.

Workshops Organised (Theme, Funding Agency, Dates)

Workshop on "Self Study", National Assessment & Accreditation Council, Bangalore, CDC, Goa University, / 0/07/1998

Seminar on "College University Interaction", Goa University, 10/11/1998

Seminar on "Growth projections of Undergraduate Education in Goa in Twenty First Century", CDC, 21/03/1999 and 22/03/1999.

1.12 Extra Mural Studies and Extension Services

- | | |
|--|---|
| B.S.Sonde , Vice Chancellor, Goa University,
<i>Chairman (Ex-Officio)</i> | Bharathi Bandodkar , <i>Member</i> |
| D.V.Borkar , Registrar, <i>Vice-Chairman (Ex-Officio)</i> | Manik Rao Gaunekar , <i>Member</i> |
| U.A.Vinay Kumar , Hon. Director, <i>Ex-Officio</i>
<i>Member Secretary</i> | Nandakumar Kamat , <i>Member</i> |

The term upto December 1998 is mainly devoted to ground-work. A project for setting up of renewable Energy Park in Goa University was prepared after consultation with experts in the field for demonstrating the renewable energy sources and devices to public and the end users, to creating awareness and publicity and to switch over to renewable energy with the institution.

Workshops Organised (Theme, Dates)

Science Awareness Programme for Higher Secondary School Science Teacher of GOA, 25/02/1999 to 27/02/1999.

Science Day Celebration, 25/02/1999.

1.13 Counselling, Career guidance and Employment Liaison Cell: Lectures by (i)The director United States Foundation for Education in India, (ii) Lt. Colonel D'Souza and (iii) Chairman, GPSC were arranged for the benefit of students, enlightening them about the job opportunities in various public/private sector establishments and the ways and means to avail them. Two workshops were conducted in May 1999 on the university campus to train the students/teachers interested in appearing for NET/SET examinations.

A.B.Shanbhag, Co-ordinator

1.14 University Alumni Association Goa (GUAAG): Goa University has started an association of Post graduate ex-students named as *Goa University Alumni Association, Goa* (GUAAG) and has enrolled ex-students of Goa University as well as the erstwhile Centre of Post Graduate Instruction and Research (CPIR) as life members. The objectives of the association are to create and enhance the image of the Goa University as a premier educational institution in the country, to create and develop a healthy co-operation between Goa University and the community, in general, to institute and establish scholarships, grants, awards and prizes to encourage curricular and extracurricular activities amongst the student community of the University, to develop a sense of social and community service amongst the students of the University, to institute prizes and awards for outstanding project work/research papers and other professional activity by research scholars of the University, to stimulate amongst the members of the association dedicated thought efforts towards the promotion and development of the Goa University, to co-ordinate with like-minded educational and social institutions as well as government and semi-government bodies in order to further the objectives of the association and to benefit its growth.

PART 2: UNIVERSITY AUTHORITIES AND BODIES.

2.1 List of the members of the University Court

- Vice-Chancellor, Chairman (Ex-officio)**
A.G. Desai, Dean, Faculty of Natural Sciences, Goa University., *Member*
B. N. Reddy, Dean Faculty of Medicine, Goa Medical College, Goa., *Member*
Cho Padarnse, Dean Faculty of Engineering & Architecture, C/o. Goa College of Architecture, *Member*
U.M.X. Sangodkar, Dean Faculty of Life Science & Environment, Goa University., *Member*
O.J.F. Gomes, Dean Faculty of Languages, Goa University, *Member*
S. D. Komarpant, Professor, Department of Marathi, Goa University, *Member*
Peter R. D'Souza, Professor, Department of Political Science, Goa University, *Member*
M. A. Shahi, Professor Department of Economics, Goa University, *Member*
V. N. Kamat Dalai, Professor Department of Chemistry, Goa University., *Member*
A. V. Afonso, Professor, Department of Philosophy, Goa University., *Member*
R.K. Singh, Dean, Goa Dental College & Hospital, Bambolim Goa., *Member*
Jennifer Joseph Fonseca, Principal, Nirmala Institute of Education, Panaji Goa., *Member*
G. M. Prabhudessai, Principal, Shree Damodar College of Commerce & Economics, Margao Goa., *Member*
A. K. Heblekar, Principal, Ponda Education Society's College of Arts & Science, Farmagudi Goa., *Member*
K. B. Mehta, Commander, Naval Academy, INS Mandovi, Verem Goa, *Member*
Parvathi Bhujanga Rao, Lecturer, Goa College of Home Science, Campal, Panaji Goa., *Member*
Ranju Suresh Kunkolikar, Lecturer, Goa College of Home Science, Campal, Panaji Goa., *Member*
S. R. Ganihar, Lecturer, Dhemp College of Arts & Science, Miramar, Panaji Goa., *Member*
Anand Sreerang Sangoram, Lecturer, S. S. Dhempo College of Commerce & Economics, Altino Panaji Goa., *Member*
Basavraj Shivappa Ingalhalli, Lecturer, M.E. S. College of Arts & Commerce, Zuarinagar, Goa, *Member*
- Prakash Raghuvir Hede**, Lecturer, Ponda Education Society's College of Arts & Science, Farmagudi Goa, *Member*
K. G. Sankaranarayan, Lecturer, Zantye Brothers Education Foundation's Narayan Zantye College of Commerce, Bicholim Goa. , *Member*
Chandralekha D'Souza, Lecturer, Department of Konkani, *Member*
Premanand S. Raikar, Reader, Department of Geology, Goa University., *Member*
A. J. Jayanthan, Lecturer, Department of Mathematics, Goa University., *Member*
Joydeep Dwijendralal Bhattarcharjee, Lecturer, Govt. College of Arts, Science, & Commerce, Samquelim, Goa., *Member*
Chairman, Diocesan Education Society, Bishop's House, Altinho, Panaji, Goa., *Member*
Chairman, Murgao Education Society, C/o. M.E.S. College of Arts & Commerce, Zuarinagar Goa., *Member*
Chairman, University Students' Council, c/o. Directorate of Students Welfare, Arts Faculty Block, Goa University, *Member*
Justice Enrico D'Silva, Borda, Margao, Goa, *Member*
Rear Admiral B.R. Menon(Retd.), Chairman, Goa Shipyard Ltd, Vasco., *Member*
Alban Couto, Advisor to Governor of Goa, Panaji Goa, *Member*
Mario Miranda, Loutolim, Salcette, Goa, *Member*
Shambu Bhau Bandekar, Ex-Dy. Speaker, H.No. 4/16-A, Tabrawado, P.O. Saligao, Bardez, Goa., *Member* .
Advocate Babuso Gaonkar, Porvorim, Bardez, Goa., *Member*
Pramod D. Salgaonkar, Dattawadi, Mapusa, Goa., *Member*
Nirmala Sawant, Marcela, Goa, *Member*
A.G. Khanolkar, Controller of Examination, Goa University., *Member*
Registrar, Goa Univbesity, *Member-Secretary (Ex-Officio)*

The third annual meeting of the Fourth Court was held on 30/03/1999.

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2.2 List of members of the Academic Council:

Vice-Chancellor, Goa University., *Chairman*
(*Ex-Officio*)

B.N. Reddy Dean, Faculty of Medicine, Goa Medical College, Bambolim, Goa, *Member*

Cho Padamsee, Dean, Faculty of Engineering & Architecture & Principal, College of Architecture, Campal, Panaji Goa, *Member*

A. G. Dessai , Dean, Faculty of Natural Sciences, Professor & Head, Department of Geology, Goa University., *Member*

O.J.F. Gomes, Dean, Faculty of Languages, Professor & Head, Department of Konkani, Goa University., *Member*

M. A. Shahi, Dean, Faculty of Social Sciences, Professor & Head, Department of Economics, Goa University., *Member*

Dean, Faculty of Performing Fine Art & Music, Campal, Panaji, Goa., *Member*

U. M. X. Sangodkar, Dean, Faculty of Life Sciences & Environment, Professor, Department of Marine Science & Marine Biotechnology, Goa University., *Member*

A. Sreekumar, Dean, Faculty of Management Studies, Department of Management Studies, Goa University, *Member*

Dean, Faculty of Law, *Member*

Dean, Faculty of Commerce, *Member*

V. Shivkumar, Professor & Head, CLAS, Goa University., *Member*

D. J. Bhat, Professor & Head, Department of Botany, Goa University, *Member*

P. R. Sarode, Professor & Head, Department of Physics, Goa University, *Member*

S. D. Komarpant, Professor & Head, Dept. Marathi, Goa University , *Member*

S. Mavinkurve, Professor & Head, Department of Microbiology., *Member*

Sashikant L. Sardesai, Principal, S. S. Dempo College of Commerce & Economics, Altinho, Panaji Goa., *Member*

I. P. Newman Fernandes, Principal, Rosary College of Commerce & Arts, Navelim, Salcete, Goa., *Member*

Dattaram V. Navelkar, Principal, Goa College of Fine Art, Altinho, Panaji, Goa., *Member*

Louis J. Vernal, Principal, G. V. M.'s College of Education, Ponda Goa., *Member*

B. A. Gomes, Principal, Govt. College of Arts, Science & Commerce, Sanquelim, Goa., *Member*

Kiran J. Budkuley, Reader, Department of English, Goa University., *Member*

N. Mekoth, Reader, Department of Management Studies., *Member*

Irene Furtado, Lecturer, Department of Microbiology, Goa University., *Member*

A. G. Chachadi, Lecturer, Department of Geology, Goa University., *Member*

P. Mukhopadhyay, Lecturer, Department of Economics, Goa University., *Member*

Datta Bhikaro Naik, Lecturer, S. S. Dempo College of Commerce & Economics, Altinho, Panaji, Goa., *Member*

Sandeep S. Burye, Lecturer, Dhempe College, Miramar, Panaji, Goa., *Member*

Savio da Piedade Falleiro, Lecturer, Rosary College of Commerce & Arts, Navelim, Salcete, Goa., *Member*

Prabhuling Gurappa Dandin, Lecturer, G. V. M.'s College of Commerce & Economics, Ponda Goa., *Member*

Marion D'Souza, Lecturer, St.Xavier's College, Mapusa Goa., *Member*

The Director, National Institute of Oceanography, Dona Paula, Goa., *Member*

Suma Chitnis, Director, J. N. Tata Endowment Bombay House — 24, Homi Modi Street, Mumbai 400 001.

K. J. Mahale, Former Vice-Chancellor, Manipur University, Deluxe Apartment — A S/2 Tonca, Caranzalem Goa.

P. P. Shirodkar, Director of Archives, Govt. of Goa, Panaji Goa.

The Deputy Librarian, Goa University, *Member*

The Registrar, Goa University, *Member-Secretary (Ex-Officio)*

During the period from June 1998 to May 1999 two meetings of the Academic Council were held. The Academic Council decided to discontinue the revaluation facility and introduction of double assessment at University examinations for professional courses. Academic Council also decided to introduce BBA programme from the academic year 2000-2001. The University has granted affiliation to the following new Colleges / Institutions during this period.

National Hydrographic School,
C/o. Headquarters,
Vasco-da-Gama.

Shivgram Education Society,
Homoeopathic College and
Hospital, Shiroda Goa.

Antarctic Study Centre,
Department of Ocean
Development, Vasco-da-
Gama

2.3 List of members of the Executive Council.

Vice-Chancellor, Goa University., *Chairman (Ex-Officio)*

Gen. S.F. Rodrigues (Retd.), Director, Goa International Centre, Dona Paula, Goa., *Member*

E.Desai, Director, National Institute of Oceanography, Goa., *Member*

Secretary to Governor & Visitor of Goa University, Raj Bhavan, Dona Paula, Goa., *Member*

Vikram Dev Dutt, Secretary to Governor of Goa, Raj Bhavan, Dona Paula, Goa.

Ranjana Salgaonkar, Salgonkar House, Vasco-Da-Gama, Goa, *Member*

Fr. Romuald D'Souza, Director, Xavier Institute of Management, Ribandar, Goa., *Member*

A. G. Dessai, Dean, Faculty of Natural Sciences, Goa University, *Member*

B. B. N. Reddy, Dean, Faculty of Medicine, Goa Medical College, Bambolim, Goa, *Member*

Margaret Angela A.C., Principal, Carmel College, Nuvem, Salcete Goa., *Member*

D. J. Bhat, Head, Department of Botany, Goa University., *Member*

Secretary (Finance), Govt. of Goa, Secretariat, Panaji, Goa., *Member (Ex-Officio)*

Secretary (Education) Govt. of Goa, Panaji, Goa., *Member (Ex-Officio)*

Registrar, Goa University., *Member-Secretary (Ex-Officio)*

During the year 1998-99 six regular meetings of the Executive Council were held. The Executive Council has taken the following decisions: (i) Leasing some area of the University campus to Research Institutions. (ii) Establishment of Student Aid Fund in Government and Non-Government Colleges of the University. (iii) Admission to foreign students under visiting students scheme. (iv) Setting up a University Fungus Culture Collection Unit. (v) MoU between Goa University and (1) Universidade de Ibero Americana AC at Santa Fe (Mexico City) and (2) University of Texas at Austin, U.S.A. and Goa University. (3) National Informatic Centre, Govt. of India, New Delhi. (vi) Establishment of Virtual Institute for Training (VIT) (vii) Set-Up The Convention and Expositions as registered societies.

2.4 List of the members of the Planning Board

Vice-Chancellor, Goa University, *Chairman (Ex-Officio)*

D.N. Dhanagare, Vice-Chancellor, Shivaji University, Kholapur., *Member*

A. G. Dessai, Dean, Faculty of Natural Sciences, Goa University, *Member*

R.K. Chhabra, C — 65 South Extension, Part — II, New Delhi — 110 049., *Member*

A.S.D. Karnik, WRC-ICSSR, J.P. Naik Bhawan, Vidyanagari, Kalina, Santa Cruz (East), Bombay - 400 098, *Member*

Registrar, Goa University, *Member-Secretary (Ex-Officio)*

The third meeting of the Fourth Planning Board was held on 27/03/1999. The meeting in principle accepted the Starting of Bharateeya Veterinary College, Alto Porvorim and the Manipal Academy of Health & Education, Panaji.

2.5 List of the members of the Finance Committee

Vice-Chancellor, Goa University, *Chairman (Ex-Officio)*

Joint Secretary of Higher Education/Director of Higher Education, Govt. of Goa, *Member(Ex-Officio)*

Joint Secretary(Finance), Govt. of Goa, *Member(Ex-Officio)*

Finance Officer, Goa University, *Member-Secretary*

Prof. A. Sreekumar, Dean, Faculty of Management Studies, Goa University, *Member*

Shri Pradip Mahatme, Chartered Accountant, Vasco-da-Gama, *Member*

Fr. Romualdo D'Souza, Director, Goa Institute of Management, Goa, *Member*

Registrar, Goa University, *Member(Ex-Officio)*

During the year 1998-99 two meetings of the Finance Committee were held.

2.6 List of Deans of Faculties.

0. J. F. Gomes, Faculty of Languages & Literature

K.M.Mathew, Faculty of Social Sciences (upto 30-01-1999)

M. A. Shahi, Faculty of Social Sciences

A. G. Desai, Faculty of Natural Sciences

U. M. X. Sangodkar, Faculty of Life Sciences & Environment

B.N. Reddy, Faculty of Medicine

Cho Padamsee, Faculty of Engineering & Architecture

A. Sreekumar, Faculty of Management Studies

2.7 List of Officers of the University:

B.S. Sonde, Vice-Chancellor

D.V. Borkar, Registrar

U. B. Naik, Finance Officer

Gopalkrishna G. Kondli, Controller of Examinations

Pandurang V. Konnur, Librarian

M. S. Chauhan, University Engineer

T.D. Halarnkar, Director of Students' Welfare

T.A. Rane, Head, Computer Centre

A.G. Khanolkar, Assistant Registrar

U.V.K. Shankhwalkar, Assistant Registrar

G.J.S. Talaulikar, Assistant Registrar

M.A. Vaidya, Assistant Registrar

G.D. Nasnodkar, Assistant Registrar

Shaikh Mahmood, Assistant Registrar

Leo Macedo, Assistant Registrar

Donald Rodrigues, Assistant Registrar

M. Shreedhara, Assistant Registrar

Albert Fernandes, Assistant Registrar

S.N. Kamat Dias, Assistant Registrar

Patricia Sequeira, Medical Officer

A.A. Kakodkar, Documentation Officer

V.L. Sawkar, Executive Engineer

Amit Srivastava, Assistant Engineer

S.S. Talaulikar, Assistant Engineer

Rajanikant Parsekar, Assistant Engineer

M. Chakraborty, Programmer

Sanjay Bandonkar, Programmer

Damodar J. Naik, Assistant Accounts Officer

Avertano Barreto, Assistant Sports Officer

2.8 Other Bodies/Associations and their Composition

2.8.1 Forum of Principals & Representatives of Management of non-Government Colleges in Goa.

Ravi Naik, MP, *President*

Rev. Fr. Antimo Gomes, *Chairman*

G. N. Mishra, *Secretary*

2.8.2 Executive Council of Goa University Teachers Association

J. S. Budkuley, *President*

D. K. Singh, *Vice-President*

Vinay Kumar, *Secretary*

R. N. Mishra, *Treasurer*

B. R. Srinivasan, *Member*

Ramballav Roy, *Member*

M. K. Janarthanam, *Member*

Chandralekha D'Souza, *Member*

B. Kanolkar, *Member*

2.8.3 Executive Council of University and College Teachers Association, Goa.

Radhika S. Nayak, *President*

P. G. Dandin, *Vice-President*

Rajendra, *General Secretary*

Olavo F. A. G. Menezes Gama, *Treasurer*

S. H. P. Keluskar, *ft. Secretary*

Lydia Menon, *Co-opted member*

Mrs. Apoorva Marathe, *Co-opted member*

2.8.4 Executive Council of the Government College Teachers Association, Goa.

Oscar Noronha, *President*

Constancio Fernades, *Vice-President*

Ramrao Wagh, *Secretary*

Daisy John, *ft. Secretary*

Nilesh

Borde,

Treasure

2.8.5 Executive Council of the Association of Officers of Goa University

TA Rane *President*

Donald Rodrigues, *Vice-President*

M. Shreedhara, *Secretary*

V.L.Sawkar, *Treasurer*

S.N.Kamat Dias, *Member*

2.8.6 Executive Council of the Goa University Non-Teaching Employees Association

Vasudev Gaonkar, *President*

Ganadhish V. Keni, *Vice-President*

D. Kambli, *Gen.Secretary*

Nanda Gauns, *ft. Secretary*

Vithal Kerkar, *Treasurer*

Assis Araujo, *Member*

Gajanan Taxi, *Member*

Joao Lopes, *Member*

Govind Pai, *Member*

Arvind Harmalkar, *Member*

2.8.7 Executive Council of the University Non-Teaching Staff Association, Goa.

A. D. Lotlikar, *President*

Nagush Naik, *Vice-President*

N. V. Govindas, *Secretary*

Sumant Y. Maribal, *ft. Secretary*

Pradeep V. Dalal, *Treasurer*

2.8.8 The Executive Body of Post Graduate Students' Union

Fernandes Luis F. M., *President*

esai Sagar P., *Secretary*

Govekar Rama M., *Cultural Secretary*

Suar Mrutyunjay K., *Sports Secretary*

Acharya Samruchi S., *Ladies Representative*

2.8.8 The Executive Body of Goa University Students' Council

Palekar Chetankumar Yeshwant, *Chairman*

Kadam Siddhesh Vishwanath, *Secretary*

Gauns Menaka P.K., *Ladies Representative*

Colaco Adjury Arfano, *Member*

D'Souza Avery Alvaro, *Member*

Gauns Desai Harshad Hari, *Member*

Kamat Sanjay Suresh, *Member*

Phadte Shankar M., *Member*

Shetty Preetham S., *Member*

2.8.9 Managing Committee of the Goa University Campus Consumers Co-operative Society Ltd.

B. S. Sonde, *Chairman*

B. Ramesh, *Member-Secretary*

K. Mahender, *Treasurer*

D. V. Borkar, *Member*

T. D. Halamker, *Member*

G. G. Kondli, *Member*

I. K. Pai, *Member*

A. B. Patil, *Member*

Pundalik Raiker, *Member*

2.8.10 University Co-operative Credit Society

Vishwasrao D. Sawant, *Chairman*

Ankush Kinalkar, *Vice-Chairman*

Vithal S. Kerkar, *Secretary*

K. G. Pal, *Treasurer*

Daya Mitragotri, *Member*

Shashikant Parab, *Member*

Uday Parsekar, *Member*

Ashok B. Chodankar, *Member*

Vasudev Gaonkar, *Member*

2.8.11 Editorial Committee of the Annual Report

A.J. Jayanthan (*Convenor*),

M. K. Janarthanam, *Member*

Nandakumar Mekoth, *Member*

P.S.Tadkodkar, *Member*

PART 3: UNIVERSITY DEPARTMENTS

3.1 Faculty of Languages and Literature

3.1.0 General Information regarding faculty: (Departments and Degrees)

Department of English: (M.A., M. Phil., Ph.D.)

Department of French: (B. A., **MA, Ph.D.**)

Department of Hindi: (M. A., M.Phil., Ph.D.)

Department of Konkani: (M.A., Ph.D.)

Department of Marathi: (M.A., Ph.D.)

Department of Portuguese: (B.A., M.A., Ph.D.)

Certificate of proficiency in French, German, Portuguese, Italian and Spanish. Advance Diploma in French.

Faculty Board

0. J. F. Gomes , *Chairman*

A. K. Joshi , *Member*

S. D. Komarpant , *Member*

R. N. Mishra, *Member*

M. Selma de Veira Velho , *Member*

Gloria Saravaya, *Member*

K. M. Sadre, *Member A.*

B. Patil, *Member K. S.*

Bhat, *Member I. B.*

Khan, *Member P.S.*

Tadkodkar, *Member*

The Faculty Board met five times during the year

3.1.1 List of Teaching Staff: (Name, Qualifications, Designation)

Department of English

A.K. Joshi, Ph.D. *Professor & Head*

A.B. Patil, Ph.D. *Reader*

K.S. Bhat, Ph.D. *Reader*

K.J. Budkuley, Ph.D. *Reader*

A.P. Vashishta, Ph.D. *Lecturer*

A.R. Fernandes, M.Phil. *Lecturer*

Nina Caldeira, Ph.D., *Lecturer*

Department of Hindi

R. N. Mishra, Ph.D., *Reader & Head*

B.K. Sharma, Ph. D., *Reader*

Ishrat Khan, Ph.D. *Senior Lecturer*

Vrushali Mandrekar, M.A., *Lecturer*

R.N. Mishra, Ph.D. *Lecturer*

Department of Konkani

0.J.F. Gomes, Ph.D., *Professor & Head*

P.S. Tadkodkar, M.A., D.H.E., *Lecturer*

Chandralekha D'Souza, Ph.D. *Lecturer*

Madhavi Sardessai, M.Phil. *Lecturer*

Department of Marathi

S.D. Komarpant, Ph.D. *Professor & Head*

K.M. Sadre, Ph.D. *Reader*

V.D. Sawant, Ph.D. *Reader*

S.M. Tadkodkar, Ph.D. *Senior Lecturer*

B.G. Kanolkar, M.A. *Lecturer*

Department of French

Jayant Dhupkar, Ph. D. *Professor & Head*

Gloria Saravaya, Ph. D. *Reader*

Department of Portuguese

Selma de V. Velho, Ph.D., *Reader & Head*

P. G. Barve, M. A. *Lecturer*

Edith Melo Furtado, MA, *Lecturer*

Maria L. Rossi, Ph.D., *Lecturer in Italian*

3.1.2. Highlights of the research activities:

Department of English

The Department focuses on literary theory, comparative literature, drama, novel, Canadian literature and the relationship between English and Konkani and Marathi literature. In the coming future, the Department wants to focus on literary studies in Goa. One student-teacher is working for his Ph. D. on tiatr in Goa and another student is working for his Ph.D. on Goan writing in English. Besides the various departmental projects, the individual teachers are doing research work in which they are interested.

Department of Hindi

B. K. Sharma is working on a project entitled "Dakshinee Hindi Kavya Ka Punarmulyakan" since last year.

Department of Konkani

O.J.F. Gomes carried on further his research into old Konkani Language & Literature and also worked on modern Konkani Literature and Culture in all its variegated aspects, as well as on Indo-Portuguese history relating to it. P. S. Tadkodkar and Chandralekha D'Souza worked on *Indian Poetics* and *Western Poetics* respectively under the U.G.C. scheme of preparation of University-level text books by Indian authors. Madhavi Saidesai guided some students on research on Linguistic aspects of Konkani.

Department of Portuguese

Velho is presently doing research on the following themes: (1) The Presence and Transmission of Indian Folklore in Portuguese Fairy Tales, through a grant of Commissao Nacional Para Comemoracoes Dos Descobrimentos Portugueses, Lisbon. (2) The Tropical Factor in Portuguese Folklore and Fairy Tales with a grant of Calouste Gulbenkian International Foundation, Lisbon.

3.1.4 Sponsored Research Projects sanctioned in 1997-98 (Name of Investigator/s, Topic, Date of Sanction, Funding Agency, Amount)

Ravindra Nath Mishra, "*Goa Mein Hindi Kee Sthiti yevam Vikas Kee Anushilata*", 13/08/1996, Goa University, Rs. 10,000/-.

3.1.5 Seminars/Conferences/Workshops, etc.

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(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

GOA

Challenges of Teaching Contemporary Courses in English, 12/02/1999, Goa University, English.

Uttarshati Ka Sahitya Aur Mahila Lekhan, 08/03/1999 and 09/03/1999, Goa University, Hindi.

Study of Tukaram in Modern Perspective, 22/03/1999 and 23/03/1999, Goa University, Marathi.

(b) (i) **Attended Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

A.B. Patil, *National Seminar on the Nativistic Perspectives on Indian Fiction*, Bombay University, Mumbai, 15/01/1999 and 16/01/1999, *A Comparative Study of the Colonial Fiction Discourse*.

A.B. Patil, *Goa 's Freedom Struggle and History & Folklore*, Department of History, Goa University, 27/03/1999 and 28/03/1999, *Folkloric Intertextuality in Literary Works*.

K. J. Budkuley, *Current and Undercurrents in Goan Literature*, Kala Academy, Goa, 10/01/1999.

K. J. Budkuley, *All India Konkani Parishad*, Belgaum, Karnataka, 15/01/1999 to 17/01/1999, *Konkani Bhas Yojan and Vikas (in Konkani)*.

- K. J. Budkuley, Goa University, 12/02/1999, *Strategies for Teaching Contemporary Courses*.
- K. J. Budkuley, *History Department of Goa University and Directorate of Archives & Archaeology, Govt. of Goa, 26/03/1999 to 27/03/1999, Folklore : Treasure Trove of History - Touchstone of Historicity*.
- R. Fernandes, Goa University, 8/02/1999, *Tiatr in Goa*.
- Edith Melo Furtado, *LUSOTOPIC (Paris) and Goa University, International Centre, Goa, February 1999, Reacting to a Transition The Case of Goa*.
- R.N. Mishra, *Modi Kala Bharti & Department of Hindi Elphinstone College, Mumbai, Mumbai, 19/09/1998, Ritikaleen Kavya Mein Saundaryabodh*.
- R.N. Mishra, *South India Chennai Hindi Parishad & Dakshina Bharat, Hindi Prachar Sabha, T. Nagar, Chennai, Chennai, 26/12/1999 and 27/12/1998, Relevance of Sant Poetry (with special reference to Kabir)*.
- R.N. Mishra, *B. M. Ruia Girl's College, Mumbai, Mumbai, 05/02/1999 and 06/02/1999, Andharee band Kamere Mein Sampurn Ghar Ki Talash*.
- R.N. Mishra, *Hindi Urdu Sahitya Award Committee, U.P. Lucknow, 22/03/1999, Mahadevi Verma Ki Rahasya Chetna Mein Lokmangal*.
- B. K. Sharma, *Marathwada University, Aurangabad, 23/06/1999 and 24/03/1998, Nagarjun Ka Kavya Galib Kee Dashneek Drushty*.
- B. K. Sharma, *Gomantak Rajbhasha, Margao, Goa, 14/09/1998, Hindi Bhasha*.
- B. K. Sharma, *Mumbai Hindi Vidyapeeth, Porvorim, Goa, 26/10/1998 and 27/10/1998, Dreeti Kee Dasha Aur Deesha*.
- B. K. Sharma, *South India Hindi Parishad, Chennai, 26/12/1998 and 27/12/1998, Aalochana Ka Pratidan*.
- B. K. Sharma, *M. D. Shah College, Bombay, 09/01/1999, Sameeksha Ka Pratiman*.
- B. K. Sharma, *Dayanand College, Bombay, 04/02/1999, Nagarjun kee Baba Bateshwar Nath Upanyas Ka Shilp*.
- B. K. Sharma, *Maharashtra Parishad, Ahmednagar, 20/02/1999 and 21/02/1999, Dakshinee Hindi Kavya Ka Punarmulyakan*.
- B. K. Sharma, *Goa University, 08/03/1999 and 09/03/1999, Upanyas Aalochana Kee Pratidaan*.
- B. K. Sharma, *Marathwada University, Aurangabad, 19/03/1999 and 20/03/1999, Dusara Saptak Katha Evam Shilpa*.
- B.K. Sharma, *Hindi Sahitya Samallan, Ahmedabad, 29/03/1999, Bhartiya Sahitya Kee Sasrutik Yakata*.
- I. B. Khan, *Goa University, Goa University, 08/03/1999 and 09/03/1999, Mrudula Garg Ke Upanason Mein Naari*.
- R. Mishra, *Goa University, Goa University, 08/03/1999 and 09/03/1999, Kalikatha:Viya Bypass-Mulkayan*.
- R. Mishra, *T. B. Cunha Hall & Kala Vaibhav, Panaji, T. B. Cunha Hall, Panaji Goa, 29/10/1998, Chinnamasta Upanyas Ka Shirshak - Yatharth Evam Mithak*.
- S. D. Komarpant, *Gomantak Marathi Academy, Panaji, 03/01/1999, Goan Marathi Short Story : Pre-liberation period*.
- S. D. Komarpant, *Role of Literature in Human Life, Gomantak Marathi Academy, Panaji, 14/03/1999, Literature in the symposium Sohala Srajanacha*.
- S. D. Komarpant, *Goa University, & Directorate of Archives, Archaeology & Museum Govt. of Goa, 27/03/1999, Vaksampradayacha Samajik Bhashavidanik Drustikonatun Vishar Symposium Folklore & History*.
- S. D. Komarpant, *Pragatik Marathi Sahitya Sammelan Mapusa, 24/04/1999, Tuka Akashevadha*.
- V.D. Sawant, *Marathi Sahitya Mahamandal, Muntbai, Mapusa, 24/04/1999, Tuka Akasha Evadha*.
- B.G. Khanolkar, *Gomantak Marathi Academy, Panaji, 3/01/1999, Madhavarti Marathi Kathechya Sandarbhat Gomantkiya Katha 1961-1987*.
- Selma V. Velho, *Embassy of Portugal, Sahitya Academy, 05/02/1999, The Tale of Unknown Island*.
- Selma V. Velho, *J.N. U., JNU, 08/02/1999, SA UDADE*.
- Selma V. Velho, *Embassy of Portugal and Delhi University, Delhi University, 30/03/1999, Folk Tales of India and Portugal Some Common Themes*.
- O. J. F. Gomes, *University of London - School of Advanced Study (Institute of Romance Studies) - International Seminar, London, 30/10/1998, The Portuguese influence on Goan Culture*.
- O. J. F. Gomes, *National Commission for commemoration of Portuguese Discoveries - International Conference, Lisbon, 07/11/1998, The Indo-Portuguese Cultural Encounter, interaction, attrition and assimilation*.

0. J. F. Gomes, *Lusotopic Journal — (Paris) & Goa University's Departments of Sociology and Political Science — International Conference*, International Centre, Dona Paula, Goa, 26/02/1999, *The Goan identity — the Portuguese element in its consolidation*.
0. J. F. Gomes, *National Seminar on Image of Woman in Konkani Literature*, Rosary College of Commerce & Arts, Navelim, 13/09/1998, *Image on Woman in Old Konkani Literature*.
- P. S. Tadmokar, *Goa Konkani Academy*, Panaji, 1998, *Characterisation in Laxmanrao Sardesai's writing Khabru Kaim Karmachyo ani kai Varmachyo*.
- Madhavi Sardesai, *Lusotopic Journal — (Paris) & Goa University's Departments of Sociology and Political Science — International Conference*, International Centre, Dona Paula, Goa, 26/02/1999, *Language contact in Multilingual India : a Focus on Konkani*.
- Madhavi Sardesai, *Konkani Kala ani Sahitya Kendr*, Goa Konkani Academy, Sarvodaya High School Curchorem, 17/07/1999, *The Phonological aspects of Konkani workshop for primary teachers*.

(b)(ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date)

- A. K. Joshi, *International Seminar on Europe: A Culture*, Lisbon, May 1998
- A.K. Joshi, *International Seminar on India : Perspectives*, Lisbon, June, 1998.
- A. B. Patil, *State Seminar on The Challenges for Colleges in the New Millennium*, Shri Mallikarjun College, Canacona, 02/02/1999.
- R.N. Mishra, *Nagarjun Ka Sahitya*, Mumbai, 03/02/1999 and 04/02/1999.
- R. N. Mishra, *Goa Hindi Teachers Sammelan organised by Kendriya Hindi Sansthan, Hyderabad*, Porvorim, Goa, 12/03/1999.
- R. N. Mishra, *Rajbhasha Aur Rastrabhasha*, Menezes Braganza, Panaji, Goa, 30/03/1999.
- B. K. Sharma, *Uttarshati Ka Sahitya Aur Mahila Lekhan*, Goa University, 08/03/1999 and 09/03/1999.
- Ravindra Mishra, *Rajbhasha Aur Rashtrabhasha*, Menezes Braganza, Panaji, Goa, 30/03/1999. O. J. F. Gomes, *NET paper setting workshop*, UGC — NET Division, New Delhi, 10/05/1999 to 12/05/1999,

3.1.6 (a) **Publications (Research Articles):** (Name of Teacher, Title, Journal, Volume, Month/Year)

- A.K.** Joshi, '*Marx Vaadi Sameeksha Drishtitun Stree Sahityachya Abhyasachya Disha*' (Marathi) in *Streevaadi Sameeksha: Sankalpana Va Upayojan*, ed. **Mangala Varkhede**, Dhule : Vaani Pragat Abhyas Sanstha, pp. 49-57, 1999.
- A.K. Joshi, '*Gadgilanchi Katha : Ek Samajik Drushtikshep*', **Gangadhar Gadgil : Vyakti Am Srushti**, ed. **Prabha Ganorkar Mumbai : Popular Publications**, pp. 184 — 195, 1997.
- A.K. Joshi, *Durdamya : Ek Charitratmak Kadambari*' (Marathi) in **Gangadhar Gadgil Yanche Sahitya** ed. **Dr. Prahlad Wader**, Panaji, **Gomantak Marathi Academy**, pp. 101-111, 1997.
- A.B. Patil, '*The Postcolonial Fictions Discourse : A Comparative's Perspective in Commonwealth Literature: Recent Trends*', *ed. **Ch. Shivaji** College, Department of English, **New Delhi : Creative Books Publication**, pp. 102 — 109, 1998.
- K. J. Budkuley. '*Konkani Language : Planning and Development*', **Rashmi, proc., XXII Conf. Of All India Konkani Parishad**, XXII, pp. 45 — 54, 15 — 17 January, 1999.
- R.N. Mishra, *Nirala Ki Kavya Samvedna*, **Bharatvani**, 10, January, 1999.
- B.K. Sharma, *Hyderabad: in College*, **Kavita**, 16, September, 1998.
- B.K. Sharma, *Kalkakra Vah Ladakee* **Bharatvani**, 07, October, 1998.
- B. K. Sharma, *Calcutta : In Koloy*, **Chapte Chapte Calcutta, Yearly Volume**, October, 1998.
- B. K. Sharma, *Bona Hai Purush Aham*, **Madhumati Udaipur**, 12, December, 1998.
- Ishrat B. Khan, *Kabir — Kavya Arbi-Farci Shabdavali*, **Sahitya Setu Sagar, Goa**, Ank-15, January, 1999.
- R. Mishra, Partha *Tum Soo Rehe Hoo*, **Samata Sandesh**, **Dipawali Visheshank**, 1998.
- R. Mishra, *Sahityeek Pareekrama*, **Bharat Vani**, 11, February, 1999.
- S. M. Tadmokar, *Gatashatak Patrikashyaa Nimittanay (A Review of Marathi periodicals published during the 19th century in India*, **Anubandh** 22, January-February-March 1999.
- S. M. Tadmokar, *Aditya: a Science fiction by Arun Heblekar in Marathi Literature*, **Panchadhara**, 41, July-August-September, 1998.
- Selma V. Velho, *A Sindroma to Sati Na Literatura Portuguesa*, **Actasdo V Congresso da Associacao Internacional dos Lustinastas**, Vol. III, page 1563 — 1574, Oxford University, 1998.

- P. S. Tadkodkar, A book titled *Pundalik Narayan Naik, Sahitya Suhee (Bibliography of Pundalik Naik Writing Descriptive)*, January, 1999.
- P. S. Tadkodkar, *Gomantak and A. K. Priolkar, Prof A. K. Priolkar birth centenary Commemoration Volume, Gomantak Marathi Academy Goa*, October, 1998.
- P. S. Tadkodkar, *Kavathe: A Review, Jaag*, October, 1998.
- P. S. Tadkodkar, *How to write a Review of a book — Another look, Jaag*, January, 1999.
- Madhavi Sardesai, *A Search for Konkani identity in Shenoi Goembab's Writing, Jaag*, June, 1998.

(b) **Publications (Books):** (Name, Title of Book, Publisher, Year)

- A.B. Patil, *Bombay ani Portuguese Govyateel Wangmaya, Mumbai: Granthali Prakashan*, 1999.
- K. J. Budkuley, *Samikshekadetz Ishtaagat, Panaji Rajhauns Vitaran, (Under publication grants from National Book Trust India)*, 1998.
- R. N. Mishra, *Neebandh Manthan (Editor Book), Lok-Bharti, Allahabad*, June, 1998.
- B. K. Sharma, *Sahitya Dhara, Lok-Bharti, Allahabad*, June, 1999.
- Ishrat B. Khan, *Sahitya Manj:tsha Edited Amanprakashan, Lok-Bharti Allahabad*, June, 1999.

3.1.7 **Sponsored Consultancy work undertaken.** (Name of teacher, Nature of consultancy, Name of the Sponsorer, Duration of Consultancy, Amount).

A.B.Patil, Translation of English thesis into Marathi for publication, Amaravati University, Amaravati (M.S.), Six months, Rs. 10,000/-.

3.1.8 **Ph.D. degrees conferred during the year:** (Name of Candidate, Subject, Title of the thesis, Name of the Guide)

Nina Caldeira, English, *Multiculturalism and the Marginalised Psyche in the Select Representative Fiction of Canada*, F.A.Fernandes

3.1.9 **Any other informations**

1. A. B. Patil, Worked as a Resource person for the following Refresher Courses in Indian Universities: (i) Refresher Course in Marathi Shivaji University, Kolhapur, 08/03/1999, Comparative Literature. (ii) Refresher Course in English: Saurashtra University Rajkot, 08/06/1999 to 10/06/1999, Comparative Literature and Culture Criticism.
2. A. B. Patil is awarded late Mr. P. B. Gadgil award for the contribution to Comparative Literature published in Yugawani by Vidharbha Sahitya Sangh, Nagpur.
3. K. J. Budkuley: Invited by All Goa Women's Conference to chair their State level symposium on 33% Reservation for Women at T. B. Cunha Hall, Panaji Goa.
4. R. N. Mishra : (1) Delivered two lectures in Hindi refresher Course organised by Academic Staff College, Osmania University, Hyderabad on 30/10/1998. (2) Delivered one lecture on the topic of "Hindi Kavita Ka Vikas" in Hindi Teacher Sammalen at Porvorim organised by Kendriya Hindi Sansthan, Hyderabad on 08/03/1999, (3) Chaired one session at a seminar on "Rajbhasha & Rashtrabhasha" organised by Institute Menezes Braganza, Panaji on 30/03/1999, (4) Delivered one lecture in Goa Hindi Teachers Sammelan at Calangute, Goa organised by members Hindi Vidyapeeth Mumbai on 14/03/1999.
5. B. K. Sharma: (1) Editor of Sahitya Sethu Sagar Magazine. (2) Presided over N.I.O. Hindi Languages seminar on 7/10/1998. (3) Conducted a class of translation Rajbhasha bureau Bombay on 10/09/1998. (4) Delivered lecture on Hindi Bhasha in Gomantak Rajbhasha, Margao, on 14/09/1998. (5) Resource person in A. S. College — Kerala University February, 1999.
6. Ravindra Mishra : (1) Executive Editor of "Sahitya Setu Sagar" literary monthly from Goa since January, 1998. (2) Awarded Ph.D. Degree from Lucknow University on the topic *Dakshin Bharat Kii Hindi Patrakarita*. (3) Awarded P. G. Diploma in Journalism from Bhartiya Vidya Bhavan, Mumbai.
7. S. D. Komarpant: appointed as a member of the Advisory Board (Marathi) of Sahitya Akademy, New Delhi for the period from 1998 to 2003.
8. S. M. Tadkodkar: (1) Receptient of Late Bhimrao Chincholikar award instituted by Anubandh, Gulbarga for the best research article published during the year 1998-1999.

9. O. J. F. Gomes: Biblioteca Nacional — CNCDP National Library (Lisbon) Commission for the Portuguese Discoveries — One month research Fellowship in June 1998, Lisbon, to work in its archives on an Indo-Portuguese Project.
9. Madhavi Sardesai : (1) Won the 1998 Sahitya Akademi Translation Prize for Eka Vicharachim Jivit Katha Konkani translation of the Hindi original Mahatma Gandhi ek Jeevani by Shri Ravindra Kelekar, (2) As a Linguist, was associated with the Corpora project of the Asmitai Pratishthan, Margao, Goa.
10. Madhavi Sardesai gave a talk on All India Radio, Panaji on 27/06/1999 on 'The Short stories of June, Shenoi Goembab'

3.2 Faculty of Social Sciences

3.2.0 General Information regarding faculty: (Departments and Degrees)

Department of Economics: (M.A., Ph.D.)
 Department of History: (M.A., Ph.D.)
 Department of Philosophy: (M. A., Ph.D.)
 Department of Political Science: (M.A., Ph.D.)
 Department of Sociology: (M.A., Ph.D.)
 Centre for Latin American Studies: (M.Phil., Ph.D.)
 Centre for Women's Studies.

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Ga4 UNIVERSITY

Members of the Faculty. Board

K.M.Mathew, *Chairman* (upto 31/01/1999)
M. A. Shahi, *Chairman* (since 01/02/1999)
V. Shivkumar, *Member*
P. R. De Souza, *Member*
A. V. Afonso, *Member*
V. Shivkumar, *Member*

P. P. Kamat, *Member*
A. R. Padoshi, *Member*
S. M. Noronha, *Member*
N. S. Bhat, *Member*
A. Sequiera, *Member*
U. A. Vinay Kumar, *Member*

The Faculty Board met once during the year

3.2.1 List of Teaching Staff: (Name, Qualifications, Designation)

Department of Economics

M.A. Shahi, Ph.D., F.S.S. *Professor & Head*
A.R. Padoshi, Ph.D., *Reader*
S.M. Noronha, Ph.D., *Reader*
H. Sadia Rizvi, M.A., Ph.D.
M.D. Aiholi, M.A., *Lecturer*
Pranab Mukhopadhyay, M.Phil, *Lecturer*
P.K. Sudarsan, Ph.D., *Lecturer*

01/02/1999).

N. Shyam Bhat, Ph.D., *Reader*
Ujjayan Bhattaacharya, M.Phil., *Lecturer*
Nagendra Rao, M.Phil., *Lecturer*
Y.V.S. Divakara Rao, M.Phil., *Lecturer*

Department of Political Science

Peter R. deSouza, D.Phil., *Professor & Head*
D.K. Singh, Ph.D., *Lecturer*
Aureliano Fernandes, Ph.D., *Lecturer*
Adi H. Doctor, Ph.D., *Visiting Professor*
Arun K Patnaik, Ph.D., *Reader*

Department of Philosophy

A. V. Afonso, Ph.D., *Professor and Head*
U. A. Vinay Kumar, Ph.D., *Lecturer*
Sanjyot D. Pai Vernekar, M.A., *Lecturer*
Koshy Tharakan, M.Phil., *Lecturer*
Milan Desai, Ph. D., *Lecturer*

Department of History

K.M. Mathew, Ph.D., *Professor & Head till 31/01/1999.*
Pratima P. Kamat, Ph.D., *Reader. Head (since*

Department of Sociology

Narayan Jayaram, Ph.D., *Professor*
Ganesha Somayaji, Ph.D., *Reader*
Alito Siqueira, M.A., *Lecturer*
Sasheej Hegde, Ph.D., *Lecturer*
Seemanthini Niranjana, Ph.D., *Lecturer*
Manish Thakur, M.Phil., *Lecturer*

Centre for Latin American Studies

V. Shivkumar, Ph.D., *Director & Professor*
Dilip Loundo, Ph.D., *Visiting Lecturer*
Dalbir Singh, Ph.D., *Lecturer*
Aparajita Gangopadhyay, M.Phil., *Lecturer*
Pushkar, M.Phil., *Lecturer*

3.2.2. Highlights of the research activities:**Department of Economics**

Faculty members of this Department are actively involved in research in almost all the major areas of Economics such as Monetary Economics, Development Economics, Public Economics, International Economics, Labour Economics and Agricultural Economics.

Department of History

The Department submitted a proposal for SAP of U. G. C. under the IXth Plan. The Department has proposed to set up a Maritime Studies Programme with a Maritime Museum. All members were involved in working for their research projects in fields such as Indo-Portuguese History, History of Kanara, History of Bengal etc.

Department of Philosophy

Koshy Tharakan : Phenomenological approaches to social reality — studies in Philosophy of Social Sciences. Sanjyot D. Pai Vernekar : Ethical justification of informed consent: Studies in medical ethics. Milan Desai : Studies in Falsificationism and Popperian Methodology. A. V. Afonso : Theories and Metaphors in Science.

Department of Political Science

The Department conducted research seminars in the following themes: (i) Elections Parties and Democratic Politics (ii) India's Security Concerns and its Nuclear Policy (iii) Positive Action and Empowerment of Women: A Case Study of Weomen Panchas in Goa. (iv) Left and Civil Society- A Critique of Private Freedom

Department of Sociology

A historical and ethnographic study of a village to examine the transformation of the Gany. Also, the cultural and economic appropriation of tourism is a continuing interest. (Alito Siqueira) The consolidation of gender identities in specific socio-political contexts. By emphasizing the spatial matrix of social life, it also raises key issues for gender studies and Indian sociology. (Seemanthini Niranjana) The Construction of the "Rural": Competing Discourses and issues in Sustainability: Participatory Development of Common Property Resources (Manish Thakur).

Centre for Women's Studies

Pratima Kamat — Worked on research projects like "Women in Goa's Struggle for Freedom" and "Women in Colonial Goa". Shaila De Souza - (1) A study of the Traditional Health Practices and the Changing Health Status of the Women in Kakra (a village in Goa). (2) 'Organising without Hierarchy: A case study of a women's collective in Goa'. (3) Public Health Policy and Malaria in Goa.

Centre for Latin American Studies

At present, the Centre has two Ph.D. and two M.Phil scholars. The areas of research include US foreign policy, environmental issues, global economic issues and its impact on the Latin American and Caribbean Society, in a comparative perspective. The faculty members of the Centre have identified the following research areas: (i) Indian Perspectives on Latin America: An Approach in the Foreign Policy Postures of India and Some Select Latin American Countries. (ii) Emerging Trends in Inter-American Relations: Selected Issues (iii) International context of Cuba-United States Relations (iv) Indo-Latin American Relations. (v) Reforms in State Institutions. (vi) Indigenous Movements in Latin America: A Case Study of Peru. (vii) The Politics of Economic Liberalisation in Brazil: Post-Populist Strategies during the 1990s. (viii) Indian Diaspora in the Caribbean . (ix) Development and Human Rights : A Comparative Multidisciplinary Study of India and Mexico.

3.2.4 Sponsored Research Projects sanctioned in 1997-98 (Name of Investigator/s, Topic, Date of Sanction, Funding Agency, Amount)

Nagendra Rao, *Urbanisation in Western Coastal India A.D. 1336-1763*, 30/10/1998, Goa University, Rs. 15,000/,
D.Loundo, *The Politics of Economic Liberalisation in Brasil*, October, 1998, Goa University, Rs. 10,000/-.

3.2.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Economics Crisis in South East Asia, 14/12/1998 to 15/12/1998, Goa University, Economics.

Seminar on Goa's Struggle for freedom and Symposium on Folklore and History, 26/03/1999 and 27/03/1999, Goa University and Govt. of Goa, History.

Third International Meeting of Lusitopie Association : Portuguese-Speaking Space in Asia, Asians in Portuguese Speaking Space, 23/02/1999 to 26/02/1999, Lusitopie Association, Paris, Sociology and Political Science.

VIIIth Conference of Director of Area Studies, 05/03/1999 and 06/03/1999, U.G.C., CLAS.

Democracy and Development in Latin America and the Caribbean, 29/03/1999 and 30/03/1999, CLAS-UGC budget & ICSSR., CLAS

(b) (i) **Attended Seminars/Conferences:** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

S. M. Noronha, *University of Hyderabad and Centre for Economic and Social Studies*, Hyderabad, 29/12/1998 to 31/12/1998, *Migrant Construction Workers in Goa*.

S. M. Noronha, *Department of Economics, Goa University*, Goa, 14/12/1998 and 15/12/1998, *Labour Laws in India and South East Asia*.

P. Mukhopadhyay, *Department of Economics, Goa University*, Goa, 14/12/1998 and 15/12/1998, *Alternative explanations of South East Asian Crisis*.

P. K. Sudarsan, *Department of Economics, Goa University*, Goa, 14/12/1998 and 15/12/1998, *East Asian Crisis: A Theoretical Perspective and Policy Conclusions*.

Pratima Kamat, *Indian National Science Academy*, New Delhi, December, 1998, *Konkatz conquered for Christ by Priests of the Society of Jesus. Its Socio-Cultural Expressions*.

Pratima Kamat, *Canissao Nacional para Commemoracoes dos Descobrimentos Portuguezes*, Coimbra Portugal, 02/03/1999 to 06/03/1999, *The City of Goa as Civilisation: A Critique of Urban Systems and Life in 16th —1 8th Centuries*.

Pratima Kamat, *College of Charleston, Charleston, SC, USA*, 18/03/1999 to 20/03/1999, *Goa Indo-Portuguesa: The 'Engineering' of Goan Society Through Colonial Policies of Coercion and Collaboration, 1510-1777*.

Pratima Kamat, *Department of History and Directorate of Archives and Archaeology, Govt. of Goa*, Goa University, 26/03/1999 and 27/03/1999, *The Opening Salvo of Goa 's Resistance to Colonial Rule: Agrarian Protests against the Religious Policy of the Portuguese, 1559-1583*.

Pratima Kamat, *Universidade Lusofona*, Lisbon, 10/05/1999 to 13/05/1999, *Stri-Shakti: The Image of the Hindu Woman Down the Ages*.

N. Shyam B hat, *Loyola College, Chetznai, Chennai*, 24/01/1999 to 26/01/1999, *Agricultural Labour in South Katzara*.

- N. Shyam Bhat, *Department of History, Directorate of Archives and Archaeology Govt. of Goa*, Goa University, 26/03/1999 to 27/03/1999, *Folklore and History from Below*.
- Koshy Tharakan, *National Institute of Advanced Studies*, Bangalore, 08/02/1999 to 13/02/1999, *Husserl and Contemporary Philosophy of Mind*.
- A.V. Afonso, *Business of Ethics and Ethics of Business*, BTIS Hyderabad, 06/11/1999 and 07/11/1999.
- Sanjyot D. Pai Vernekar, *Twentieth World Congress of Philosophy*, Boston, U. S. A., 10/08/1998 to 16/08/1998, *Aurobindonian Ontology: Salient Peculiarities*.
- Sanjyot D. Pai Vernekar, *Government College*, Sanquelim, 31/08/1998, *The Creator and Creation: Sri Aurobindo's Interpretation*.
- Peter R. de Souza, Goa, 14/08/1998, *Pre and Post Portuguese Governance*.
- Peter R. de Souza, New Delhi, 24/08/1998 and 25/08/1998, *Panchayati Raj and Democracy in India*.
- Peter R. de Souza, Mangalore, 28/09/1998, *Hegemony and Intellectual Traditions: The Case of Political Philosophy*.
- Peter R. de Souza, New Delhi, 05/11/1998 to 08/11/1998, *Democratic Decentralization of Power in India*.
- Aureliano Fernandes, Bangalore, 23/06/1998 and 24/06/1998, *Women, Panchayats and Poverty Eradication*.
- Aureliano Fernandes, Goa, 27/02/1999 and 28/02/1999, *Political Transition in Post Colonial Societies*.
- V. Shivkumar, *Pondicherry Central Govt. Union*, Pondicherry, Sept. 1998, *Statehood for Pondichery*.
- D.Loundo, *Goa University*, 28/02/1999, *Colonial heritage in Brazil and Goa*.
- D. Loundo, *Lusotopic, France*, Goa, 25/02/1999, *The Political party system of Brazil*.
- D.Loundo, *Delhi University*, Delhi, 07/04/1999, *Romanticism in Brazil*.
- D. Singh, *Economics Department*, Goa University, 15/12/1998, *South East Asian Crisis: A Political perspective*.
- D.Singh, *Australian High Commission*, New Delhi, 14/11/1998, *Continuity and change in Australia's foreign policy*.
- D. Singh, *Canadian Studies*, Goa University, 26/03/1999, *Strategies for dispensing public service — The newly emerging state — The Case Study of Canada*.
- D. Singh, *CLAS*, Goa University, 30/03/1999, *Cuba in Transition*.
- A. Gangopadhyay, *CLAS*, Goa University, 29/03/1999 and 30/03/1999, *Challenges to Democracy in Peru: Sendero Luminoso*.

(b) (ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date)

- P. Mukhopadhyay, *A Social Science Agenda for Schools*, Bhopal, 19/09/1998 and 20/09/1998.
- M. D. Aiholi, *Course on Research Methods in Labour Economics*, Noida, 1/12/1998 to 17/12/1998.
- Pratima Kamat, *The Third International Conference of Lusotopia*, International Centre, Goa, February, 1999.
- Milan Desai, *National Institute of Advanced Studies*, Bangalore, 08/02/1999 to 13/02/1999.
- Peter R. de Souza, *State of Democracy*, Sweden, 12/03/1999 and 13/03/1999.
- Manish K Thakur, *Data Analysis in Social Sciences*, Tata Institute of Social Sciences, Mumbai, 26/10/1998 to 07/11/1998.

3.2.6 (a) **Publications (Research Articles):** (Name of Teacher, Title, Journal, Volume,(or Title of Book & Publishers) Month/Year)

- S. M. Noronha, *Migrant Construction Workers in Goa*, **Indian Journal of Labour Economics**, 41, No. 4, October — December, 1998.
- P. Mulchopadhyay, *Redesigning Panchayath Finances & Altitudes : A case study of Goa*, **Journal of Rural Development (ISSN-0970-3357)**, 18, No. 1, January — March, 1999.
- Pratima Kamat, *No Taxation without Cessation of Religious Persecution Agrarian Protests Against the Colonial Religious Policy in Goa, 1559-1583*, **Agrarian India: Problems and Perspectives** ed. E.K.G. Nambiar, Calicut, Association for Peasant Studies, University of Calicut, pp. 23-38, March 1999.
- N. Shyam Bhat, *Land Revenue System and Agrarian Relations in South Kanara: 1799-1862*, **Agrarian India: Problems and Perspectives** Edited by E.K.G. Nambiar, March 1999.
- A.V. Afonso, *Laws, Theory and Metaphors*, **History, Time & Truth: Essays in Honour of Professor D. P. Chattopadhyaya**, ed. Daya Krishna and Bhuvan Chandel, New Delhi, 1999.

Sanjyot D. Pai Vernekar, *Aurobindonian Ontology: Salient Peculiarities*, **Website of Twentieth World Congress of Philosophy**, March 1999.

Aureliano Fernandes and Pranob Mukhopadhyay, *Redesigning Panchayat Finances and Attitudes — a case study of Goa*, **Journal of Rural Development, National Institute of Rural Development, Hyderabad. Vol. 18 No. 1**, January — March, 1999.

Aureliano Fernandes, *India European Encounters: Colonial Institutions and Post Colonial Identities. European Studies in Independent India (Conference Proceedings)*. Published by **Institute of India European Studies, Goa**, January 1999.

D.Loundo, *Reflexions over a Commeration*, **Mainstream**, 27/06/1998.

D. Singh, *Continuity and change in Australia's Foreign Policy*, **Education Dialogue, Vol. 3 No. 1**, January, 1999.

(b) **Publications (Books):** (Name, Title of Book, Publisher, Year)

N. Shyam Bhat, *South Kanara: 1799-1860*, **Mittal Publications, New Delhi**, 1998.

D. Singh, *Evolution and Role of the Communist party in Cuba*, **Classical Publishing Company New Delhi**, 1999.

3.2.7 Consultancy Work Undertaken:

Alito Siqueira, Consultancy to Research Project, Tata Energy Research Institute, 4 months over 14 months, Rs. 92,000/- + expenses to be borne by Sponsor.

3.2.8 (b) Ph.D. degrees conferred during the year: (Name of Candidate, Subject, Title of the thesis, Name of the Guide)

H. Sadia Rizvi, Economics, *Economic Structure, Foreign Trade and Balance of Payments: A Case Study of India, 1970-71 to 1990-91*, M.A.Shahi.

Ganesha Somayaji, Sociology, *Udupi Hoteliers in Goa: A Sociological Study in Occupational Mobility*, S.R.Phal and K.M.Mathew.

3.2.9 Any other information:

1. Mukhopadhyay received visiting fellowship from the Centre for Urban Studies, Department of Economics, Calcutta University.
2. Pratima Kamat was a Guest Faculty at the LL.B. Course at Smt. P. Salgaocar College of Law, Panaji.



3.3 Faculty of Natural Sciences

3.3.0 General Information regarding faculty: (Departments and Degrees)

Department of Chemistry:(M.Sc., Ph.D.)
 Department of Computer Science and Technology: (M.C.A., Ph.D.)
 Department of Geology: (M. Sc., Ph.D.)
 Department of Mathematics (M.Sc., M.Phil., Ph.D.)
 Department of Physics: (M.Sc. Physics; M.Sc. Electronics, Ph.D.)
 University Science Instrumentation Centre.

Faculty Board

A. G. Dessai, *Chairman*
V. N. Kamat Dalal, *Member*
P. R. Sarode, *Member*
Y. S. Pralhad, *Member*
V. V. Kamat, *Member*
J. S. Budkuley, *Member*

G. M. Naik, *Member* J.
K. Kirtany, *Member* B.
D. Desai, *Member* J.A.E.
DeSa, *Member* A. V.
Salkar, *Member* Y. S.
Valaulikar, *Member*

The Faculty Board met two times during the year.

3.3.1 List of Teaching Staff: (Name, Qualifications, Designation)

Department of Chemistry

V.N. Kamat Dalal, Ph.D., *Professor*
J.S. Budkuley, Ph.D., *Professor & Head*
J.K. Kirtany, Ph.D., *Reader*
B.D. Desai, Ph.D., *Reader*
K.S. Rane, Ph.D., *Reader* J.B.
Fernandes, Ph.D., *Reader* S.P.
Kamat, Ph.D., *Reader* V.P.
Kamat, Ph.D., *Lecturer* A.V.
Salkar, Ph.D., *Lecturer* S.G.
Tilve, Ph.D., *Lecturer*
B. Das Gupta, Ph.D., *Lecturer*
B.R. Srinivasan, Ph.D., *Lecturer*
N. Chandrashekar, Ph.D., *Lecturer*
R.N. Shirsat, Ph.D., *Lecturer*
V.S. Nadkarni, Ph.D., *Lecturer*
V.M.S. Verenkar, Ph.D., *Lecturer*
Sachin Kakodkar, M.Sc., *Lecturer*
M. P. Samant, M.Sc., *Lecturer*

University Science Instrumentation Centre

Gaurish M. Naik, Ph.D., *Reader & Head*
Rajendra S. Gad, M.Sc., *Technical Officer-I*

Department of Mathematics

Y. S. Prahalad, Ph.D., *Professor & Head*
A. J. Jayanthan, Ph.D., *Reader*
Y. S. Valaulikar, M. Phil., *Lecturer*
A. N. Mohapatra, Ph.D., *Lecturer*
R. K. Panda, Ph.D., *Lecturer*

Department of Computer Science and Technology

P.R.Rao, Ph.D., *Reader*
V.V.Kamat, Ph.D., *Reader & Head*
Jyoti D. Pawar, M.C.A., *Lecturer*
Yma Pinto, M.C.A., *Lecturer*
Ramdas N. Karmali, M.C.A., *Lecturer*
S. Baskar, M.Sc., *Lecturer*

Department of Geology

A.G. Dessai, Ph.D. *Professor & Head*
P.S. Raikar, Ph.D. *Reader*
K. Mahender, Ph.D., *Reader*
A.G. Chachadi, Ph.D., *Lecturer*
T.A. Vishwanath, Ph.D., *Lecturer*

Department of Physics

P.R. Sarode, Ph.D. *Professor & Head*
J.A.E. Desa, Ph.D., *Reader*
G.M. Naik, Ph.D., *Reader*
G.R. Bhat, Ph.D., *Reader*
Uma Subramanian, Ph.D., *Lecturer*
R.B. Tangsali, Ph.D., *Lecturer*
R.V. Pai, Ph.D., *Lecturer*
R. K. Kamat, M. Phil., *Lecturer*
P.K.Choudhury, Ph.D., *Lecturer*
K.R. Priolkar, Ph.D., *Lecturer*
R.B. Prabhu, Ph.D., *Visiting Professor*

3.3.2. Highlights of the research activities:

Department of Chemistry

Preparation, synthesis and characterization of ternary compounds either by ceramic method or precipitation method having superconducting properties. Synthesis, characterization and study of physical properties of mixed transition metal chalcogenides in vacuum of the order of 10^{-6} mm of Hg. The renewed interest in this field has arisen because of abnormal properties exhibited by them. Catalytic Amination of t-Butyl alcohol over modified ASM-5 catalysts. Enrichment of low grade ores. Natural products, identification of medicinal active plants and their bio-degradation. Isolation & characterization of bio-active compounds from medicinal plants. Synthesis of bio-active natural products. Development of Charge models for the study of intermolecular interactions. Electroless

plating. Synthesis of fine particle cobaltites, chromites and cobalt oxide spinels for catalysis applications.

ContriG^{NINI}

Department of Computer Science and Technology

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Having established the MCA programme, majority of the faculty members have now identified research areas for themselves and are either guiding research students or are pursuing a Ph.D. degree. Broad areas of interest of the faculty are: Internet Applications, Data mining, Clustering Algorithms, Distributed databases, and Imaging systems.

Department of Geology

(I) Lower crustal and mantle nodules in lamprophyres from the Deccan Traps in and around Mumbai are investigated with a view to understand the composition and lithological variation in the deep crustal rocks. (II) Geochemistry of Joida Ultramafic Complex, Uttara Kannada, Karnataka. (III) Statistical modeling and evaluation of mining property from North Goa. (IV) Sedimentologic, stratigraphy and Paleogeographic reconstruction of carbonate sequences of Western India. Application of RS-GIS integrated approach in mining and Environment Geology. (V) Ground water model studies involving sea water intrusions in the coastal aquifers and mining impacts on ground water environment. Investigations on rural drinking water supplies, resource augmentation, water conservation and artificial recharge. Overall ground water study and its impacts on the substance of life in the Coastal Zones of India.

Department of Mathematics

Some behaviour of solutions of certain nonlinear singular elliptic problem on a finite ball in \mathbb{R}^n is partially studied and is compared with the $n = 1$ case, where the solutions can be written down explicitly the anti-maximum principle for second order linear elliptic problems, and more generally, for linear elliptic problems with weight are studied. Inverse Spectral Theory and Inverse Scattering Theory. Differential Equations with piecewise constant deviating arguments are studied, in particular, Controllability and application of quasilinearization method for existence of solutions. Knot theory has become a very active area of research in recent time because of its influence in low-dimensional topology and Physics. The study of knot theory has been initiated in the last two years. Special emphasis is given on the combinational aspects and their relations with links and braids.

Department of Physics

Under the superconductivity activity, Ca doped $\text{Yb}(\text{BaSr})_2\text{Cu}_3\text{O}_{7-x}$ samples of both oxygen rich and oxygen poor phases were prepared and characterised using various techniques like x-ray diffraction, resistivity, infrared absorption and EXAFS. The structures were refined using Reitveld technique to obtain exact position of Ca in the lattice. EXAFS data is presently being analysed. Suppression of superconductivity due to Pr doping in $\text{ErBa}_2\text{Cu}_4\text{O}_8$ compounds was studied using XANES spectroscopy. It was found that Pr localises the mobile holes near Fermi level thereby decreasing the transition temperature. The AC susceptibility set-up was further improved with an electronic bridge circuit to reduce the offset voltage to micro-volt level. A study on series of superconducting oxides was successfully undertaken using this modified apparatus to measure the flux-creep and activation energies in these samples. In connection of the project for the automatic tracking for a solar cooker, the relevant literature for the electronic version has been collected and a tentative design for this has been made. For the project involving shielding calculations around a neutron beam at Dhruva Reactor, BARC preliminary design for the section nearest the reactor biological shield has been completed in consultation with the BARC and IUC scientists. A programme in the design and development of precision and highly stable NTC thermistors has been initiated in the Department. In this programme work includes the preparation of Ni — Mn — O type materials with rare-earth doping for making these kind of thermistors. Also a computerized modeling will be done to enhanced the performance of the thermistors. An electronic control system for super heated wash water setup for sugar industries has been successfully developed. The local sugar factory has planned to implement the above control system. Studies on quantum phase transitions in one dimensional Fermionic and Bosonic systems using DMRG technique have been carried out.

University Science Instrumentation Centre

In the year 1998-99 Instrumentation Centre (IC) has procured few new instruments and machines to strengthen the existing workshops. A proposal has been sent to UGC for the upgradation of the Instrumentation Centre from Level — I to Level — II. This will enable us to add many new facilities to the centre. This year three training programs were arranged by the Instrumentation Centre for the teachers of vocational stream, in association with the Academic Staff College and the Physics Department, in the area of electronic equipment maintenance and computer maintenance.

3.3.3 List of visiting scholars: (Name of Scholar, Institutional Affiliation, Title of Lecture, Date)

Prof. Vishwambhar Pati, I. S. I. Bangalore, *Prof D. B. Wagh Endowment Lecture*, 19/03/1998 and 20/03/1998.

3.3.4 Sponsored Research Projects sanctioned in 1997-98 (Name of Investigator/s, Topic, Date of Sanction, Funding Agency, Amount)

- P. R. Sarode, R. B. Prabhu and V. N. Kamat Dalal, *Neutron Diffraction and Scattering Studies of antiferromagnetic MnTe-xSex*, 01/04/1999, *Inter University Consortium for DAE facilities*, Rs. 1,35,400.
- J. A. E. Desa and G. R. Bhat, *Design of an Optimally Shielded Neutron Beam Path*, 17/03/1999, *Inter University Consortium for DAE facilities*, Rs. 67,000/-.
- V. V. Kamat and Ramdas Karmali, *Web based courseware tools*, May 1999, *All India Council for Technical Education (AICTE)*, Rs. 9.00 lakhs.
- K. S. Rane, August, 1998, *Inter University consortium for Department of Atomic Energy facilities*, Rs. 30,000/-.
- S. G. Tilve, *Organophosphoranes in Synthesis of selected natural products*, March, 1999, *University Grants Commission*, Rs. 2,35,080.00.
- A. G. Chahchady and P.S.Raikar, *Measuring Monitoring and Managing Sustainability*, December 1998, *European Union*, Rs. 15 lakhs.
- A. G. Chachadi (Col), *Impact Assessment & Remediation of open cast mine dewatering on rural Goa drinking water supplies*, February 1999, *Rajiv Gandhi National Drinking Water Commission*, Rs. 5.09 lakhs.

3.3.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Theme, Dates, Funding Agency, Name of Department)

- 12th *International Conference on VLSI Design*, 07/01/1999 to 10/01/1999 *VLSI Society of India, IEEE*, Department of Physics.
- Five day Intensive Course on VLSI Design*, 07/12/1998 to 12/12/1998, *Goa University and VLSI Local Organizing Committee*, Department of Physics.
- Vth National Seminar on Liquid Crystals*, 29/10/1998 to 31/10/1998, *CSIR, New Delhi, Liquid Crystal Society, Goa University and M/s. V. M. Salgaonkar & Co. Goa*, Physics and Chemistry.
- Computer courses: Relevance to Software Industry*, 07/07/1998, *Self funded*, Computer Science.
- ERP (Enterprise Resource Planning)*, 11/12/1998, *self funded*, Department of Computer Science.
- Java and the Internet programming*, 26/10/1998 to 29/10/1998, *Funded through consultancy project*, Computer Science & Technology.
- All Goa College Mathematics Teachers Meet on U. G. Pedagogy in Mathematics*, 13/04/1999 to 14/04/1999, *Goa University, Mathematics*.
- U.G.C. Chemistry Panel Meeting*, 11/01/1999 to 13/01/1999, *University Grants Commission*, Chemistry.

(b)(i) Attended Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

- A.G. Chachadi, *SDM College, Dharwad*, 10/12/1998 and 11/12/1998, (1) *Strategies for water resources management in the coastal regulatory zone*. (2) *Geoelectrical studies in ascertaining fresh water in coastal Goa*.

- J. A. E. Desa, *IUMRS — ICA*, Indian Institute of Science Bangalore, 13/10/1998 to 16/10/1998, *Structural Investigation of Rare Earth Phosphate Glasses using X-ray and Neutron Diffraction*.
- R. V. Pai, *Max-Planck-Institute fur Physik Complex Systemie, Dresden, Germany*, Dresden, Germany, 07/02/1999 to 05/03/1999, *One Dimensional Disordered Bose Hubbard Models*.
- V. V. Kamat, *IEEE in collaboration with Griffith University, Australia*, Gold Coast, Australia, 04/08/1998 to 07/08/1998, *Automatic Gait Synthesis Using Generalised Motion Determinants*.
- P. R. Rao, *National Institute for Oceanography, Goa*, 12/10/1998 to 16/10/1998, *Computer aided taxonomic identification system for marine plants*.
- R. Panda, *The 3rd School on Nonlinear Analysis & Applications to Differential Equations*, Institute RL Plan da TRIESTE, Italy, 12/10/1998 to 30/10/1998.
- K. S. Rane, V. M. S. Verenkar, P. Y. Sawant, *DAE-BRNS National Symposium on 'Recent Trends in Electro and Magneto ceramics'* Shivaji University, Kolhapur, 18/02/1999 to 20/02/1999, *Electric and magnetic Properties of Mg Fe₂O₄ synthesized from iron ore rejects*.
- K. S. Rane, V. M. S. Verenkar, *National Seminar on Magnetism and Magnetic Materials*, Cochin University of Science and Technology (CUSAT), Kochi, 22/02/1999 to 23/02/1999, (i) *Hydrazine Method of Synthesis Fe₂O₃ of useful in Ferrites Preparation Part I preparation, Characterization and decomposition of iron Carbo.xylato — hydrazinates.*(ii) *Hydrazine Method of Syntesis Fe₂O₃ of useful in Ferrites Synthesis Part!! Preparation, Characterization and decomposition of iron oxyhydroxides and their hydrazinates*.
- Beena K. Vernekar and B. R. Srinivasan, I.I.Sc. Bangalore, 1998, *Synthesis and Spectroscopic characterization of Tetrathiometalate complexes of Lead. Proceedings of the Symposium on Frontiers in Inorganic Chemistry*.
- S. G. Tilve, *Indian Institute of Science, Bangalore*, 27/01/1999 to 30/01/1999, *National Symposium in Chemist?, A Novel synthesis of 3, 5— diarylisoxazoles*.
- A.V. Salkar, *14th National Symposium on Catalysis*, Chennai, Anna University, 16/12/1998 to 18/12/1998, *Nitric Oxide reduction over ruthenium supported on Silica and alumina*.
- R. N. Shirsat, *University of Hyderabad, Hyderabad*, 26/12/1998 to 28/12/1998, *MESP Topography Driven charge models*.
- V. P. Kamat, H. Hagiwara et al, *Annual Symposium, The Japan Chemical Society, Yokohama, Tokyo, Japan*, 26/03/1999 to 30/03/1999, *Total Synthesis of c->2-curcurnin*.
- V. P. Kamat, H. Hagiwara, T Susuki and M. Audo, *42nd Symposium on Terperes, essentials oils and Aromatics, Gibu Tharmacr'autilcal University, Gibu, Japan*, 07/11/1998 to 09/11/1998, *Metathesis Directed synthesis of(R) =(=)-= Moscow*.
- V. M. S. Verenkar, *Electric and magnetic properties of Mg F1₂O₄ obtained from iron ore reject presented at `DAE-BRNS Symposium on Recent trend in electro & magnetoceramics, Shivaji University, Kolhapur, India, 1999*.

(b) (ii) **Attended Workshops:** (Name of Teacher, *Theme of Workshop*, Place, Date)

- A.G. Chachadi, *Remote Sensing*, Goa University, ISRO, Bangalore, 12/11/1998 to 16/11/1998.
- S.A. Vishwanath, *DST Group Monitoring Workshop*, Tamil University, Thanjavur, 28/12/1998 to 30/12/1998.
- K. Mahender, *Remote Sensing and Geoinformatics*, Indian Institute of Remote Sensing (ISRO), Dehradun, 04/01/1999 to 12/03/1999.
- K. R. Priolkar, *History of Science*, National Institute of Advanced Studies, Bangalore, 14/02/1999 to 17/02/1999.
- R. K. Kamat, *Workshop on Microcontroller & Interfacing*, Department of Instrumentation, University of Pune, Pune, 28/05/1999 to 08/05/1999.
- S. Bhaskar, *Remote sensing for natural resource management*, ISRO, Bangalore, October, 1998.
- V.V. Kamat, *Databases, Data Visualization and Image Processing*, IUCAA, Pune, 15/11/1998 to 24/11/1998.
- V.V. Kamat, Ramdas Karmali, *International Conference on Visual Computing, ICVC'99*, Cidade de Goa, Goa, 23/02/1999 to 26/02/1999.
- K. S. Rane, *Workshop on Neutron Scattering Data Analysis* Bhabha Atomic Research Centre, Mumbai, 17/08/1998 to 20.08/1998.
- V. P. Kamat, *International Symposium/workshop on Carbanion chemistry International Centre*, Tohoku University Sendai, Japan, 01/08/1998 to 04/08/1998.
- J. S. Budkuley, *Some Landmarks in the History of Physical and Chemical Sciences*, National Institute of Advanced Studies, Bangalore, 15/02/1999 to 17/02/1999.

Y. S. Valaulikar, *Conference of Association of Mathematics Teachers of India (AMTI)*, All Goa Maths Teachers Association State Institute of Education, Bandora, Ponda Goa, 07/01/1999 to 09/01/1999.

3.3.6 (a) **Publications (Research Articles):** (Name of Teacher, Title, Journal, Volume, Month/Year)

- A. G. Dessai, *Petrology and Geochemistry of xenoliths in lamprophyres from the Deccan Traps: implications for the nature of deep crust boundary in Western India*, **Mineralogical Magazine**, **63**, 1999.
- K. R. Priolkar, Mala N. Rao, R. B. Prabhu, P. R. Sarode, S. K. Paranjpe, P. Raj and A. Sathyamoorthy, *Inelastic Neutron Scattering in $CeSi_2Ga_x$ ferromagnetic Kondo Lattice Compounds*, **J. Phys: Condens Matter**, **UK**, **10/10557-10564**, November, 1998.
- Anjali Chhikara, K. R. Priolkar, P. R. Sarode and R. B. Prabhu, *Origin of Superconductivity suppression in $Er_xPr_{13-x}Cu_2O_8$ Studied by X ray Absorption Spectroscopy*, In, **X-ray Spectroscopy and Allied Areas**, ed. S. K. Joshi et al (Narosa Publishing House, New Delhi), pp. 150-152, 1998.
- P. R. Sarode, K. R. Priolkar and R. B. Prabhu, *Cerium L m Edge Spectra in Mixed Valent Compounds*, In, **X-ray Spectroscopy and Allied Areas**, ed. S. K. Joshi et al (Narosa Publishing House, New Delhi), pp. 171-174, 1998.
- R. K. Kamat, G. M. Naik and G. G. Tengshe, *Thermistor based Conditional output sensor*, **Circuit Cellar INK**, **USA**, **105/28-31**, April, 1999.
- Julio B. Fernandes & Sajo P. Naik, *Synthesis of acetonitrile over ZnO catalysts*, **Indian Journal of Chemical Technology**, **Vol. 5**, **P 405 —6**, 1998.
- Julio B. Fernandes & Purnakala V. Samat, *Nickel modified manganese oxides as electrocatalysts for oxidation of methanol in fuel cells*, **Journal of Power Sources**, **Vol 79**, **P 114— 118**, 1999.
- D. N. Bhosale, V. Y. Path, K. S. Rane, R. R. Mahajan, P. P. Bakre, S. R. Sawant, *Thermal study of ferritization temperature of Cu-Mg-Zn ferrites: TG/DTG/DTA(STA) studies*, **Thermochimica Acta** **316 (1998) 159 — 165**.
- D.N Bhosale, V. M. S. Vernekar, K. S. Rane, P. P. Bakre and S. R. Sawant, *Initial susceptibility studies on Cu-Mg-Zn ferrites*, **Materials Chemistry and Physics**, **Vol. 59 (1999) 57 —42**.
- K. S. Rane, V. M. S. Vernekar, R. M. Pednekar and P. Y. Sawant, *Hydrazine Method of Synthesis Fe_2O_3 of useful in Ferrites Synthesis Part-III- study of hydrogen iron oxide phase in Fe_2O_3* , **J. Mater. Sci: Mater in Electronics** **19 (1999) 121 — 132**.
- K. S. Rane, V. M. S. Vernekar, R. M. Pednekar and P. Y. Sawant, *Hydrazine Method of Synthesis Fe_2O_3 of useful in Ferrites Synthesis Part IV-Preparation and characterization of magnesium ferrite, $Mg Fe_2O_4$ from Fe_2O_3 obtained from hydrazinated iron oxyhydroxides and iron carboxylatohydrazinates*, **J. Mater. Sci: Mater in Electronics** **19 (1999) 133-140**.
- V. P. Kamat, R. N. Asolkar & J. K. Kirtany, *Synthesis of flavans : One Pot synthesis of flavans from 4-methyl coumarins*, **Synth. Commun.** **28 (24)**, **4581 (1998)**.
- V. P. Kamat, R. N. Asolkar & J. K. Kirtany, *Synthesis of unusual product of the photolysis of 6-methoxybenzofuran —2, 3 - dione & Styrene*, **Indian J. Chem.** **378**, **1269**, 1998.
- S.M. Gurav and A. V. Salkar, *Electrical, magnetic and catalytic carbon monoxide oxidation studies on $Zn_iCu_xMn_{4-x}O_4$ system*. **Indian Journal of Chemical Technology** **5 (1998) 286 — 292**.
- S. M. Gurav and A. V. Salkar, *Synthesis, Characterization and catalytic oxidation studies over $Ni_kCu_xMn_{20-x}O_4$* , **Indian J. Chemistry** **A.38 (1999) 130 —135**.
- V. P. Kamat [et.al](#), *Synthesis of flavans: one P. T. synthesis of falvans from unmethyl coumarins*, **Synthetic Communications**, **28 (240)**, **4581**, 1998).
- V. P. Kamat, [et.al](#), *Ring closing metathesis guided synthesis of (R)=(.) Myscons*, **J. Chem. Soc., Perkin Trans** **1998**, **2253**.
- A. N. Assad, N. Chandrasekhar, A. W. Nashed and P. Krebs, *Is there any effect of solution Microstructure on the solvated electron absorption spectrum in LiC I/H₂O solutions?*, **J. Phys. Chem. A** **1999**, **103**, **6339 — 6343**.
- V. S. Nadkarni, Sunil S. Bhagwat & Shrinivas D. Samat: *A Correlation of the thickness of the nitrocellulose films prepared using a spinning disk technique with the observable properties of nitrocellulose solution*, **Indian Journal of Chemistry** **Vol. 38 A**, **p.p. 209 —218**, March 1999.
- V. M. S. Vernekar, *Hydrazine method of synthesis of r- Fe_2O_3 useful in ferrites preparation Part III:- study of hydrogen iron oxide in r- Fe_2O_3* , **J. Mater, Sci: Materials in electronics** **10 (1999) 121— 132**.
- V. M. S. Vernekar, *Hydrazine method of synthesis of r- Fe_2O_3 useful in ferrites preparation Part IV:- Preparation and characterization of magnesium ferrite, $Mg Fe_2O_4$ from r- Fe_2O_3 obtained*

from hydrazinated iron oxyhydroxides and iron (II) carboxylato — hydrazinates, **J. Mater. Sci: Materials in electronics** **10** (1999) **133 — 140**.

V. M. S. Verenkar, *Initial susceptibility studies on Cu-Mg-Zn ferrites*, **Mater. Chem. & Physics**, **159** (1) (1999) **57 — 62**.

J. S. Budkuley and G. K. Naik, *Thermoanalytical properties of monobasic nitrilotriacetate salts of alkaline earth metals and zinc*, **Thermochimica Acta**, **320** (1998) **115 — 120**.

(a) **Publications (Books)** : (Name, Title of Book, Publisher, Year)

H. Hagiwara, V. P. Kamat, *Synthetic studies directed forward bio-active turpues on labdana and clorodone framework from W.M.K.*, Recent R. S. Develop in Org. & Bioorg Chem, **Transworld Publishers**, 1999.

3.3.8 (a) **Ph.D. degrees conferred during the year:** (Name of Candidate, Subject, Title of the thesis, Name of the Guide)

Stephen Dias Barreto, Mathematics, *Operator Algebras & Application to Physics*, Y.S.Prahalad.

S. M. Gurav, Chemistry, *Catalytic oxidation of carbon monoxide over manganite spinels*, A.V.Salkar.

V. M. S. Verenkar, Chemistry, *Benefication of Goan ore rejects to get pure iron oxide and utilisation of the iron oxide to synthesize ferrites high-tech magnetic materials*, K.S.Rane.

3.3.7 **Consultancy Work Undertaken:** (Name off the teacher, Nature of Cosultancy, Funding Agency, Duration, Amount)

G.M.Naik, *Development of Automated Circuit Boards Testing Equipment*, Titan Time Products, Verna, 1999- 2000, Rs. 60,000.

A.G.Chachadi, A.G.Desai and M.Mahender, *Comprehensive Ground Water Evaluation Studies at Kunde Mine, Bicholim, Goa*, M/s V.M.Salgaonkar & Bros, 12months, Rs. 2.4 lakhs.

V.V.Kamat, *Training of Personal on web related programming*, Training Center of Investment Professionals Inc, Zurich, Switzerland, August to October 1998, Rs. 2.4 lakhs.

V.V.Kamat, *One-day per week, consulting on managing software development*, Philsystems Ltd., Panjim, Goa, One year from July 1998, Rs. 1.00 lakh.

3.3.9 **Any other information:**

1. Department of Physics, ISRO, Bangalore, NIO, Goa and Laboratoire De Meteorology Dynamic du CNRS, Ecole Normale Superieure, Paris, France, INDOEX Constant level ballon experieient to monitor the air mass flow from continent to ocean, January-March 1999, ISRO, Bangalore, Rs. 1,32,000.
2. For 1998-99, Dr. V. V. Kamat was awarded short term fellowship to visit Institute Superior Technique, Lisbon Portugal by Fundacao Oriente, Portugal.
3. R.K.Panda visited TIFR Center, Indian Institute of Science, Bangalore, during 02/05/1999 to 12/05/1999.
4. Y. S. Prahalad visited the University of Tennen, Knoxville U.S.A. from 04/70/1998 to 20/08/1998.
5. V.P. Kamat went as a Visiting Research Scientist to Nigata University, Japan from October 1997 to March 1999.
6. N.Chandrashekar, was awarded a fellowship by the German Academic Exchange Service (DAAD) to participate in the 34th International Seminar on research and teaching in Physical Chemistry and Chemical Engineering for the year 1998-99.
7. V.P. Kamat, Visiting Faculty, Calpoly, USA, 1998-99.

3.4 Faculty of Life Sciences & Environment

3.4.0. General Information regarding faculty: (Departments and Degrees)

Department of Botany: (M. Sc., Ph.D.)

Department of Marine Science and Marine Biotechnology: (M.Sc., Ph.D.)

Department of Microbiology : (M. Sc., Ph.D.)

Department of Zoology: (M.Sc., Ph.D.)

The faculty also offers an M. Phil in Environmental Sciences.

Faculty Board

U. M. Sangodkar, *Chairman*

S. Mavinkurve, *Member*

D. J. Bhat, *Member*

G. N. Nayak, *Member*

P. V. Desai, *Member*

Joe D'Souza, *Member*

C. L. Rodrigues, *Member*

A. B. Shanbhag, *Member*

I. Furtado, *Member*

S. Nazareth, *Member*

The Faculty Board met once during the year.

3.4.1 List of Teaching Staff: (Name, Qualifications, Designation)

Department of Marine Science and Biotechnology

G.N.Nayak, Ph.D. *Professor & Head*

U.M.X. Sangodkar, PhD, *Professor*

C.L. Rodrigues, Ph.D, *Reader*

H.B. Menon, Ph.D, *Reader*

S. Upadhyay, Ph.D, *Lecturer*

S.C. Ghadi, Ph.D, *Lecturer*

S.S. Kerkar, M.Sc, *Lecturer*

U. Barros, Ph.D, *Lecturer*

U.D. Muraleedharan, Ph.D, *Lecturer*

V.M. Matta, PhD, *Lecturer*

C.U. Rivonkar, Ph.D, *Lecturer*

Aftab Can, M.Sc, *Lecturer*.

Department of Zoology

P.V. Desai, Ph.D, B.Ed., *Reader & Head*

A.B. Shanbhag, Ph.D, *Reader*

S.K. Shyama, Ph.D, *Lecturer*

I.K. Pai, Ph.D, *Lecturer*

R. Roy, Ph.D., *Lecturer*

Department of Microbiology

S. Mavinkurve, Ph.D., *Professor & Head*

J. D'Souza, Ph.D., *Reader*

Dr. S. K. Dubey, Ph.D, *Reader*

S. Bhosle, Ph.D, *Reader*

I. Furtado, Ph.D., *Reader*

S.Nazareth, Ph.D., *Lecturer*

S.Garg, Ph.D., *Lecturer*

Department of Botany

D.J. Bhat, PhD, *Professor & Head*

P.K. Sharma, Ph.D, *Reader*

M.K. Janarthanam, PhD, *Reader*

B.F. Rodrigues, Ph.D, *Reader*

V.U. Kerkar, Ph.D, *Lecturer*

S.Krishnan, Ph.D. *Lecturer*

3.4.2. Highlights of the research activities:

Department of Botany

The faculty members in the Department have carried out and are actively engaged in research in their respective field viz. Biodiversity of freshwater algae, terrestrial and aquatic fungi; higher plants of Goa and neighbouring districts of Karnataka and Maharashtra States with an aim to bring out a comprehensive flora of this region; Effect of UV radiation on biochemical & Photochemical processes in higher plants and marine algae; Ecophysiology; Isolation, characterisation and use of native mycorrhizae in revegetation of denuded and degraded area of mining regions of Goa; Structure and Chemistry of grain filling in rice. The Department has also set up a fungus culture & collection unit supported by the University, with an objective to collect & screen fungi from the western ghats for commercially viable compounds. The Department is also participating in study of bio-control of

mosquito in collaboration with Malaria Research Centre, Goa. Department of Botany has also taken up research activity in the field of medicinal plants (a garden of medicinal plants is being developed) & bio-degradation of urban waste. The research work in the department is funded by various national funding agencies such as DST, CSIR, ICMR, DSTE Goa etc. Some of the interesting and new findings and observations were presented in National/International Conferences. The faculty is very active in publishing their research work in National and International Journals.

Department of Marine Science and Marine Biotechnology

The faculty members of the Marine Sciences and Marine Biotechnology are actively involved in the following research areas: Remote Sensing through radioisotope transfer mode. Satellite meteorology. Ocean circulation. Behaviour of aluminium and other trace metals in estuaries. Biogeochemical cycling of environmental sensitive elements in the nearshore regions. Aquaculture and Fisheries. Taxonomy of corals and Biodiversity. Sediment flux and hydrodynamics in estuarine coastal and lake environments. Impact of mining on estuaries. Standardisation of processes like agarase of special characteristics and of commercial importance from deep sea bacteria. The oilspill and tar ball degradation by means of selective marine microbial consortia developed for Marine Pollution Control. Establishment of methods to study risk and its assessment due to recombinant DNA in controlled marine conditions. Processes for preparation of proteases and xylanases from marine microorganisms. Important toxins from marine organisms of commercial importance. Validation of faculties for effluent treatment based on marine organisms. Screening and characterisation of alginate lytic bacteria.

Department of Microbiology

The Staff members in the Department are actively involved in the following research areas with funded and non funded projects: EPS production by *Pseudomonas mendocina* strain P2d. Environmental Impact Assessment of the Shrimp Farms in Goa. Characterization of extracellular sedimentation factor produced by Cyanobacterial consortium. Biological characterization of marine bioluminescent bacteria from Goan beaches. Studies on the Extracellular surface-active compound produced by *Arthrobacter illicis*. Studies of marine bacteria producing fatty acids, bioactive compounds. Studies on alkaliphilic microorganisms and their biotechnological potential. Retting of coconut husk using microorganisms. Studies on *Halobacterium* with respect to a) Thermotolerance and synthesis of heat shock proteins, b) Response to chemical stress of metal and hydrocarbons, c) Resistance to Cadmium and Arsenic and d) Use for conversion of trash fish. Use of *Fusarium solani* for a) Metal biosorption in control of metal pollution and b) Biosedimentation of mine tailings.

Department of Zoology

Study of congenital Malformation in Human population of Goa, Genetic Studies of breast cancer in Goa and pesticide genotoxicity and mutagenicity of spices. Study of adaptational mechanism with reference to membrane structure and function; Lipid biochemistry, Zooplanktology, Neurochemistry, Wetland biology, Electrophysiology & tissue culture.

3.4.4 Sponsored Research Projects sanctioned in 1998-99 (Name of Investigator/s, Topic, Date of Sanction, Funding Agency, Amount)

- D.J. Bhat, *Investigations on Biocontrol of Mosquito larva, Goa State*, January, 1999, *I.C.M.R. in collaboration with M.R.C. Goa*, 8.5 lakhs.
- S. K. Shyama, *Studies on the Genetics disorders in Human population in Goa*, 30/10/1998, *University U.G.C.*, 40,000/-.
- R. Roy, *Mechanism of..... environment*, April, 1999, *U. G. C.*, 7.35 lakhs.
- R. Roy, *Marine Bacteria ..* March, 1999, *DOD*, 14.85 lakhs.
- S. K. Dubey and S. Bhosle, *Studies on marine bacteria transforming organotin*, March, 1999, *DOD (OSTC)*, 15.80 lakhs.
- I. Furtado, *Use of Cyanobacteria for Clarification of waste water from Mine sites at Goa*, August, 1998, *DOEn*, 14.96 lakhs.
- H. B. Menon, *Quantitative Analysis of water constituents from Case II waters, using IRS-P4-OCM data Inverse Modelling*, 19/03/1999, *ISRO, Ahmedabad*, Rs. 13.90 lakhs.
- I. K. Pai, *Physico-Chemical and biological..... plateaus in Goa*, Oct. 1998 *U.G.C.*, 40,000/-

3.4.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Recent advances in Plant Sciences, February, 1999, Goa University, Department of Botany.

Training Course in Microbiology, 20/06/1998 to 30/06/1998, Microbiology and OSTC.

Environmental Awareness Programme for Mining Executives (Course/Workshop), 10/08/1998 to 14/08/1998, Funded by participating industries, Marine Sciences & Biotechnology.

Training Programme in Remote Sensing for Goa University Faculty members, 06/10/1998 to 16/10/1998, ISRO & DST, Goa, Marine Sciences & Biotechnology.

(b) (i) **Attended Seminars/Conferences:** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

D. J. Bhat, Madras C.A.S. in Botany University of Madras, 20/01/1999 to 22/01/1999, *Diversity and Ecology of Aquatic fungi of Western Ghats*.

P.K. Sharma, Calcutta Saha Institute of Nuclear Physics, 14/10/1998 to 16/10/1998, *Changes in xanthophyll cycle & abscisic acid content in sorghum exposed to high light*.

M. K. Janarthanam, Calicut University and IAAT Calicut, 27/11/1998 to 29/11/1998, *New records to the State of Goa — an analysis*.

B.F. Rodrigues, NAEB Agricultural Finance Corpn. Ltd., Mumbai, 18/12/1998 to 20/12/1998, *Transfer of Nursery Technology for Afforestation in Western Ghats Areas and Coastal Estuaries*.

S. K. Shyama, Environmental Mutagenic Society of India / BARC, Bombay, 1999, *Pedigree analysis of Breast cancer patients in Goa*.

I.K. Pai, Magadh University Bodh — Gaya, 14/10/1998 to 18/10/1998, *Zooplanktons of Andaman Sea*.

I.K. Pai, *Int. Seminar Sustainable usage of Indian Ocean*, November 1998, *Did l vertical migration of Zooplankton in Andaman Sea*.

I. K. Pai, UNESCO, Pune, 03/02/1999 to 06/02/1999, *Science & Human Rights*.

Sandhya Royan, Chanda Parulekar and S. Mavinkurve, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Studies on Exopolysaccharides of Pseudomonas Mendocina*.

Maria S. Menezes, and Joe D'Souza, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Impact of Shrimp farms on estuaries in South Goa*.

J. M. Branganca and I. Furtado, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Resistance of Halobacterium RI to cadmium*.

S.C. S. Kunkolienkar and I. Furtado, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Salt and Metal Tolerance of Marine Nitrogen Fixing synechococcus strain S*.

S. IChandavilli, J. M. Branganca and I. Furtado, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Effect of Heavy metal ions on the lipid and protein composition of Halobacterium Strain RI*.

T. Madhan Raghavan and I. Furtado, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Tolerance of Halophilic Archaeobacterial strain to Petroleum Hydrocarbons*.

A. Lobo Fernandes and I. Furtado, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Amylolytic, Proteolytic and Lipolytic bacterial from goan pans*.

G. Viegas, A. Lobo Fernandes and I. Furtado, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Fermentation of Indian Mackerel using proteolytic Halobacterial consortium*.

Sherol Rodrigues and Santa Nazareth, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Fungal sedimentation of mine tailings*.

Ruchi S. Jain and Santa Nazareth, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1998 to 07/12/1998, Extracellular components in metal biosorptions*.

H. B. Menon, DST, Goa, Goa, 05/09/1998, *Making effect of aerosol on water leaving radiance*.

- G. N. Nayak, *First Convention of Mineralogical Society of India and National Seminar, Department of Studies in Geology, Karnatak University, Dharwad, Dharwad, 27/11/1998 and 28/09/1998, Heavy Minerals in identification of energy domains along the coast of Goa — a case study.*
- S. C. Ghadi & U. M. X. Sangodkar, *Association of Microbiologists of India, Diamond Jubilee Symposium & 39th Annual Conference, Mangalore, Mangalore, 05/12/1998 to 06/12/1998, Molecular rearrangement responsible for emergence of strain PM from Burkholderia cepacia AC 1100.*
- S. C. Ghadi, S. Kumar, M. Sawant & U. M. X. Sangodkar, *Association of Microbiologists of India, Diamond Jubilee Symposium & 39th Annual Conference, Mangalore, Mangalore, 05/12/1998 and 06/12/1998, Characterization of cetechol 2, 3-dioxygenase from a marine isolate GU101 and expression of its gene in terrestrial strain Burkholderia Cepacia PT88.*
- G. N. Nayak, *National Seminar on Coastal Zone Management, Dept. of Civil Engineering, S.D.M. Engineering College Dharwad, Dharwad, 10/12/1998 to 11/12/1998, Response of suspended matter and associated parameters to changing seasons in a tropical estuary, central west coast of India. Also Chaired a session on Placer minerals.*
- U. M. X. Sangodkar, *Mdo-US Research Office of Naval Research USA and NIO, International Centre, Goa, 03/02/1999 to 05/02/1999, Ind^o US: Reviews of Projects on Tropical dynamics.*
- G. N. Nayak, *National Workshop on Sea Level held at CSIR Centre for Mathematical Modelling and Computer Simulation (C-MMACS), Bangalore, Bangalore, 13/04/1999 and 14/04/1999, Presented a proposal on Signatures of sea level fluctuations along west coast of India.*
- Trivilcram, M.B., Pandey, A.K. & S.K. Shyama, *XXIV Environmental Mutagenic Society of India, BARC, Bombay, 29/03/1999 to 31/03/1999, Pedigree analysis of Breast cancer patients in Goa.*

(b) (ii) **Attended Workshops:** (Name of Teacher, *Theme of Workshop*, Place, Date)

- M. K. Janarthanam, *Geographical information system: Technology and Applications, Dehra Dun, 04/01/1999 to 12/03/1999.*
- M. K. Janarthanam, *Remote sensing and GIS Techniques in Natural Resources Management, Goa University & RRSSC, Bangalore, 12/10/1998 to 17/10/1998 and 13/11/1998 to 17/11/1998.*
- S. Krishnan, *National workshop on Genetic Transformation & Production of Transgenic Plants, Osmania University Hyderabad, 07/12/1998 to 16/12/1998.*
- S. Krishnan, *Department Science & Technology Group Monitoring Workshop, Jodhpur, 04/03/1999 and 05/03/1999.*
- S. Mavinkurve, I Furtado, S. Nazareth, *Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore, 05/12/1999 to 07/12/1998.*
- B. F. Rodrigues, NIO, Dona Paula, 21/07/1998 and 22/07/1998, *Workshop on Research Priorities.*
- S. K. Shyama, *Remote sensing and GIS Techniques in Natural Resources Management, Goa University & RRSSC, Bangalore, 12/10/1998 to 17/10/1998 and 13/11/1998 to 17/11/1998.*
- G. N. Nayak, *Ten's Project Report on Areawide environmental quality management (AEQM) plan for the mining belt of Goa, International Centre, Goa, 10/07/1998.*
- H. B. Menon, *Oceansat, National Institute of Oceanography, Goa, 05/09/1998 to 07/09/1998.* G. N. Nayak, *Remote Sensing and GIS applications for Goa State, Department of Science, Technology and Environment, Saligao, Goa, 09/09/1998.*
- U. Rivonkar, *Training Programme in Remote Sensing and GIS applications for Goa State, ISRO, Bangalore and Department of Science, Technology and Environment, Saligao, Goa, 06/10/1998 to 16/10/1998.*
- G.N.Nayak, *Measuring, Monitoring and Managing sustainability — the Coastal Dimension, Organised by TERI at Goa International, Goa, 22/02/1999.*
- B.F. Rodrigues, Barkatulla University, 05/03/1999 to 07/03/1999, *National Conference on Mycorrhiza.*
- B. F. Rodrigues, IBM and Department of Marine Biotechnology Goa University Goa, 11/08/1998 to 14/08/1998, *Training Course on Environmental Awareness Programme for Mining Executives.*

3.4.6 (a) **Publications (Research Articles):** (Name of Teacher, *Title, Journal, Volume, Month/Year*)

- Sussamma, U Lekha G., Sreekala K. N. & Bhat D. J., *A new species of Trinacvium from India, International Journal of Botany, Vol. I 132 — 137, 1999.*
- Miriam J. & Bhat D.J., *A new spices of microsporium from Goat dung, KAVAKA, 23-24 p. 192-196, 1997.*

- P. K. Sharma, Preethe Anand & Sangeeta Sankhalkar, *Oxidative damage and changes in activities of antioxidant enzymes in wheat seedlings exposed to UV-B radiation*, **Current Science**, 75 pp 359-366, 1998.
- Rajkumar S. Vaishali C. Joshi & M. K. Janarthanam, *Additions to the Sedges of Goa*, **J. Econ. Tax. Bot.** 22(3), 688 - 690, 1998.
- Rajkumar S. Vaishali C. Joshi & M. K. Janarthanam, *Additions to the grasses of Goa*, **J. Bombay Nat. Hist. Soc.** 96(1), 181 — 183, 1999.
- Azakanandam K., S. Krishnan & P. Dayanandan, *Brassin and Benzylaminopurine Promote Yield in Midge Rice (*O. sativa* L. cv. IR50)*, **Journal of Experimental Botany**, 49 pp 61, 1998.
- S. Krishnan, K. Azhakanandam, G.A.I. Ebenezer, N. P. Samson & P. Dayanandan, *Brassinosteroids and yield Increase in IR50 Indica Rice*, **Current Science**, 76(2) 145 — 147, 1999.
- Shaila Bhat & P. V. Desai, *Electrophysiological studies of an Indian green mussel, *Perna Viridis* (b) under mining runoff stress*, **J. Exp. Zool. India**, 1(2), p-119 — 124, 1998.
- Shaila Bhat & P. V. Desai, *Effect of thermal and salinity stress on *Perna Viridis* (L) heart*, **Ind. J. Exp. Biol.** (36) — p 916— 910, 1998.
- S. Khandavilli, F. Sequeira & I. Furtado, *Metal Tolerance of Extremely Halophilic Bacteria Isolated from Estuaries of Goa, India* **Eco.Env. & Conservation** 5 (2):149-152, 1999.
- G. N. Nayak, *Impact of mining on Environment in Goa — review*, **Journal of Environment Geochemistry**, Vol.1 (2) pp. 97— 100, 1998.
- C.U. Rivonkar, Aburajan, & U. M. X. Sangodkar, *Chitin degrading bacteria from the prawn, *M. dobsoni**, **Indian Journal of Marine Sciences**, Vol. 28, March, 1999.
- S.K. Shyama, *Survey of the bird pests of Agricultural crops in Goa*. **Birds in Agricultural Ecosystems**, Society of applied Ornithology, India, pp.18 - 20, 1998.
- I.K. Pai, *Zooplankton diversity on Taleigao Plateau, Goa*, **Trends in Life Science** 14: 1-5, 1999.
- I.K. Pai, *Present studies of paddy insect pest diversity in Goa*, **Bionature** 19(1): 27-30, 1999.
- I.K. Pal, *Controlling Uzi through hyperparasitoids*, **India Silk** 38: 11-12, 1999.
- R.Roy, *Fatty acid composition of the ingested food only slightly affect physico chemical properties of liver & total phospholipids & plasma membranes in cold adapted fish*, **Fish physiology Biochemistry**, 20: 1999.

3.4.7 Consultancy work undertaken: (Name of teacher, Nature of Consultancy, Name of the Sponsor, Duration of Consultancy, Amount)

G. N. Nayak, S. Upadhyay and V. M. Matta, Water analysis, Indomer Coastal Hydraulics Ltd., August — November, 1998, Rs. 16, 740/-.

3.4.8 (b) Ph.D. degrees conferred during the year: (Name of Candidate, Subject, Title of the thesis)

R.N.S.sundaram, Botany, *Studies on the Effect of Microbiologically Degraded Agro-by-product feeds on Digestible and Growth Performance in Domestic Rabbit*, D.J.B hat.

Shaila T.Bhat, Zoology, *The Study of Toxic Action of Mining Effluents of the Developmental Stages of *Rana Tigrina**, P.V.Desai.

Mohan R. Girap, Marine Sciences, *Geomorphology, sedimentology and Geochemistry of Mayem lake, Bicholim Taluka, Goa, India*, G.N.Naik.

Christina Saldanha, Marine Sciences (Marine Biology), *Effect of Environmental factors on the growth of commercially important juvenile shrimps*, Anil Chattergi.

A. K. Chaubey, Marine Sciences (Marine Geology), *Marine Geophysical investigation over a part of the Eastern Arabian Sea, North Western Indian Ocean*, Gopal Rao.

R. Rajkumar, Marine Sciences (Marine Chemistry), *Aspects of nitrogen recycling in a coral reef ecosystem*, S.C.Goswami.

Meloth Thamban, Marine Sciences (Marine Geology), *Sedimentological investigation on sediments from the Western continental margin of India : Inferences on the Paleooceanography during later quaternary*, R.R.Nair.

3.4.9 Any other information:

1. Mavinkurve is invited as a speaker in Symposium on — Aquatic and Environmental Microbiology in Diamond Jubilee Symposium and 39th Annual Conference of AMI held in College of Fisheries, Mangalore (December 5-7, 1998) on "Marine ecosystem : An untapped source of novel/unique microorganisms".

2. Judith M. Braganca and Suneeta Khandavilli (Ph.D. Research Fellows): Secured First prize in Poster Presentation held by Association of Microbiologists of India — Goa Unit for the poster title Impact of metal ions on lipid and protein composition of Halobacterium strain RI 1st March, 1997.
3. Can is awarded third rank at the Training Programme of Space Applications Centre, Ahmedabad on successful completion of 9—month phase of Satellite Meteorology & Global Climate.
4. **Goa University Fungus Culture Collection and Research Unit:** The unit maintains a collection of nearly 3000 isolates of mostly terrestrial fungi in live culture form, besides a few hundred strains of Actinomyceies. During 1998-'99, the work on classification of the collection was undertaken. Requirements for scientific management of the culture collection, including computerisation of the data to be generated through taxonomic identification and biochemical screening were identified.
5. **Ocean Science and Technology Cell:** During 1997-98 Department of Ocean Development identified Goa University as one of the several coastal Universities to act as nodal cells designated as Ocean Science And Technology Cell in defined areas such as Marine Coastal Ecology, Marine Geology and Geophysics, Coastal Marine Culture and Marine Microbiology etc. The **Managing Committee** consists of **B.S.Sonde**, Vice-Chancellor as *Chairman* and **S. Mavinkurve** as *Research Coordinator*. Published OSTC six monthly News Letter since December 1998



3.5 Faculty of Management Studies and Faculty of Commerce

3.5.0 General Information regarding faculty: (Departments and Degrees)

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GOA UNIVERSITY

Department of Management Studies: (M.M.S, Ph.D.)

Department of Commerce: ([M. Com.](#), M. Phil., Ph.D.)

Faculty Board

A. Sreekumar, , *Chairman*

Dilip Kare, *Member*

B. Ramesh, *Member*

A. G. Balasubramanian, *Member*

N. Mekoth, *Member*

Satish Kumar, *Member*

M. S. Daynanand, *Member*

K. B. Subhas, *Member*

The Faculty Board met two times during the year.

3.5.1 List of Teaching Staff: (Name, Qualifications, *Designation*)

Department of Management Studies

A.G. Balasubramanian, Fellow of IIM, *Head & Reader*

A. Sreekumar, Fellow of JIM, *Professor*

Nandkumar Mekoth, Ph.D., *Reader*

Satishkumar, Ph.D., *Lecturer*

M.S. Dayanand, MBA, *Lecturer*

Kshama Fernandes, MMS, *Lecturer*

Kare Dilip D. Ph.D., *Professor*

Department of Commerce

B.Ramesh, Ph.D, *Professor*

Y. V. Reddy, Ph.D., *Reader*

K.B. Subhash, Ph.D., *Lecturer*

Guntur Anjana Devi Raju, M.Phil., *Lecturer*

3.5.2. Highlights of the research activities

Department of Commerce

B. Ramesh : A doctoral work on 'Portfolio investments in Emerging Markets — An Empirical Analysis of Diversification Benefits' has been completed in April, 1998, under the guidance of B. Ramesh. The above thesis has also been nominated for the best research award for 1998, constituted

by Indian Institute of Foreign Trade, New Delhi. K. B. Subhash is awarded Ph.D. by Calicut University for his thesis entitled 'A Study on the Significance of Venture Capital and Entrepreneurial Development in South India.

Department of Management Studies

Two candidates were registered with Dr. N. Mekoth as guide for Ph.D. The topics were 'Customer Loyalty and Defections in Service Sector' and 'Understanding Complaining Behaviour as Consumption'.

3.5.5 Seminars/Conferences/Workshops, etc.:

(a) Organized: (*Theme, Dates, Funding Agency, Name of Department*)

One-day Joint Seminar with the Institute of Chartered Accountants of India, New Delhi, on Accounting Education & Research, November, 1998, ICAI, New Delhi, Commerce.

Emerging Horizons for Financial Market Intermediaries '99, 06/03/1999 and 07/03/1999, Self Financed, Management Studies.

(b) (i) Attended Seminars/Conferences: (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

Anjana Raju and Y. V. Reddy, *Department of Accountancy & Business Statistics, Rajasthan University, Jaipur, February, 1999, 'Electronic Markets for learning Education Brokers on the WEB'.*

(b) (ii) Attended Workshops: (*Name of Teacher, Theme of Workshop, Place, Date*)

Kshama Fernandes, *FINGROWTH: Growth in the Financial Services Industry, Mumbai, 11/09/1998.*

A. Sreekumar, *Curriculum Development Workshop, Indian Institute of Management, July, 1998.*

A. G. Balasubramanian, *Management Education and Expectations of Indian Industry, AIMA (All India Management Association) Delhi, 23rd December, 1998.*

A. G. Balasubramanian, *Asia Pacific Human Resources Conference on 'Building Human Resources Practices into Fabric of Business Experience Sharing', Centre for Change Management, Mumbai, 18/02/1999 to 20/02/1999.*

A. G. Balasubramanian, *Conference on National Competativeness Policy, National Productivity Council, New Delhi, 05/04/1999 and 06/04/1999.*

M. S. Dayanand, *NASMEI-IIMB (North American Society for Marketing Education in India — JIM. Bangalore) Symposium on Marketing, JIM, Bangalore, 16/07/1998 and 17/07/1998.*

M. S. Dayanand, *National Seminar on Tourism at Kurukshetra University, Kurukshetra University, March, 1999.*

Kshama Fernandes, *India's Evolving Financial System, IGIDR (Indira Gandhi Institute for Development Research), Mumbai, 24/06/1998 to 30/06/1998.*

Kshama Fernandes, *New Approaches to Risk Management, International Conference Management, 29/07/1998 to 30/07/1998.*

Kshama Fernandes, *NSE's (National Stock Exchange) Certification in Financial Markets, NSE, Mumbai, 27/08/1998 and 28/08/1998.*

Kshama Fernandes, *Seminar on Value at Risk, IGIDR (Indira Gandhi Institute for Development Research) Mumbai, 24 /10/1998 to 29/10/1998.*

Nandakumar Mekoth, *AICTE sponsored Induction Training Programme, NIVIIMS, Mumbai, 30/11/1998 to 20/12/1998.*

Nandakumar Mekoth, *Faculty Development Programme by ICFAI, NISIET, Hyderabad, 10/05/1999 to 13/05/1999.*

Satishkumar, *Yoga Instructor's Course and Yoga Therapy Course, Indian Yoga Institute of Vivekananda Kendra Research Foundation, Bangalore, 01/11/1998 to 29/12/1998.*

Satishkumar, *Managing Personal and Organisational Stress, Fore School of Management Delhi, 08/02/1999 and 09/02/1999.*

3.5.6 (a) **Publications (Research Articles):** (Name of Teacher, *Title, Journal, Volume, Month/Year*)

A.G. Balasubramanian, *Certain Considerations in the weightages for Promotions: An Analysis of Agreement in Banks*, **Indian Journal of Industrial Relations**, Vol. 34 (4) pp. 462 — 481, April, 1999.

3.5.8 (b) **Ph.D. degrees conferred during the year:** (Name of Candidate, Subject, *Title of the thesis*)

Uma Shashikant, Commerce, *Portfolio Investments in Emerging Markets — An Empirical Analysis of Diversification Benefits*.

3.5.9 **Any other information:**

1. B. Ramesh has been elected as president of Indian Accounting Association (IAA) for 1999— 2000 at the 22nd Annual Conference of IAA held at the Rajasthan University, Jaipur.

Students enrolment:

Faculty	M.A./M.Sc./M. Com./M.C.A./M.M.S.			M.Phil		PhD./ Diploma	Total
	Pt. U Sem. I	Pt. IU Sem. III	Sem. V	Pt I	Pt. II		
Languages	95	42			6	22	
Social Sciences	47	64			1	06	
Natural Sciences (M.Sc.)	78	21	137	61	28	310	
Life Sciences					03	11	
Commerce	59	30			3	05	
Management	63					02	
Total	479	218	28	3	15	90	855
						26	

Results:

	M.A.	M.Sc.	M.Com.	M.M.S.	M.C.A..
Admissions for Part II/Sem.V	295	271	93	62	100
Addmitted for Examinations*	173	206	67	30	29
Successful in Examinations	141	122	49	27	29

* Repeater/failed students from previous year/semester appear for examinations.

PART 4: AFFILIATED COLLEGES

4.0 List of Affiliated Colleges:

(a) Non-Professional Colleges:

1. Dhempe College of Arts and Science, Miramar, Panaji, Goa.
2. Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa.
3. St. Xavier's College of Arts and Science, Mapusa, Goa.
4. S. S. Dempo College of Commerce and Economics, Altinho, Panaji, Goa.
5. Carmel College for Women, Nuvem, Salcete, Goa.
6. Murgao Education Society's College of Arts and Commerce, Zuarinagar, Goa.
7. Shree Damodar College of Commerce and Economics, Margao, Goa.
8. D.M's College of Arts, Sou. Sheela Premanand Vaidya College of Science and V.N.S. Bandekar College of Commerce, Mapusa.
9. Goa Vidyaprasarak Mandal's College of Commerce and Economics, Ponda, Goa.
10. Ponda Education Society's College of Arts and Science, Farmagudi, Ponda, Goa.
11. Naval Academy, I.N.S. Mandovi, Verem, Goa.
12. Cuncolim Education Society's College of Arts and Commerce, Cuncolim, Goa.
13. Government College of Arts, Science and Commerce, Sanquelim, Goa.
14. Goa College of Home Science, Campal, Panaji, Goa.
15. Government College of Arts, Science and Commerce, Khandola, Marcela, Goa.
16. Government College of Arts, Science and Commerce, Quepem, Goa.
17. Rosary College of Arts and Commerce, Navelim, Goa.
18. Saraswat Vidyalaya Society's College of Commerce and Management Studies, Mapusa, Goa.
19. Fr. Agnel College of Arts and Commerce, Pilar, Goa.
20. Shree Mallikarjun College of Arts and Commerce, Canacona, Goa.
21. Government College of Arts and Commerce, Pernem, Goa.
22. Zantye Brothers' Educational Foundation's College of Commerce, Bicholim, Goa.
Shree Shantadurga Kunkolikarine Saunsthane College of Arts and Commerce, Fatorpa.

(b) Professional Colleges

23. Goa College of Pharmacy, Panaji, Goa.
24. College of Engineering, Farmagudi, Ponda, Goa.
25. Nirmala Institute of Education, Altinho, Panaji, Goa.
26. Goa College of Fine Art, Altinho, Panaji, Goa.
27. Mahadeorao Salgaonkar College of Law, Miramar, Panaji, Goa.
28. Govind Ramnath Kare College of Law, Margao, Goa.
29. Goa Dental College, Bambolim, Goa.
30. College of Architecture, Campal, Panaji, Goa.
31. Kala Academy's Goa College of Music, Campal, Panaji, Goa.
32. Institute of Nursing Education, Panaji, Goa.
33. Goa Vidyaprasarak Mandal's College of Education, Ponda, Goa.
34. Bharatiya Sanskriti Probodhini's Gomantak Ayurveda Mahavidyalaya and Research Centre, Shiroda, Goa.
35. Goa Medical College, Bambolim, Goa
36. Shri Kamaxidevi Homoeopathic Medical College & Hospital, Shiroda Goa.
37. National Hydrographic School, Vasco-da-Gama
38. Padre Conceicao College of Engineering, Verna.
39. Vidya Vikas Mandal's Institute Of Management Training & Research, Margao
40. Institute Of Psychiatry & Human Behavior, Altinho, Panaji
41. Institute Of Safety, Occupational Health and Environment, Altinho, Panaji
42. Goa Institute Of Management Studies, Miramar

4.1 Dhempe College of Arts & Science, Panaji.

4.1.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

- G.N. Mishra, Ph.D., *Principal, Reader*,
Philosophy & Psychology
- A.F. Barbosa, Ph.D., *Vice-Principal, Reader*,
Physics
- A.V. Sakhardande, M.A., *Lecturer*, English
- P.K. Khaunte, M.A., *Lecturer*, English
- Ramola Antao, M.A., *Lecturer*, English
- Margaret Lopes, M.A., *Lecturer*, English.
- Rabin B. Pinto, M.A., *Lecturer*, English
- Maria Isabel Vaz, M.A., *Lecturer*, English
- S.S. Walimbe, M.A., *Lecturer*, English
- Edwin Cortez, M.A., *Lecturer*, Economics &
Political Science
- Shilpa Samant, M.A., *Lecturer*, Economics &
Political Science
- K.S. Govekar, M.A., *Lecturer*, Economics &
Political Science
- Vrishali U. Prabhugaonkar, M.A., *Lecturer*,
History
- Prajal Sakhardande, M.A., *Lecturer*, History
- Ave Cleto Afonso, M.A., L.L.B., *Lecturer*,
Philosophy & Psychology
- Zinia D' Silva, Ph.D., *Lecturer*, Philosophy &
Psychology
- Wendy Ann Manuel, M.A., *Lecturer*,
Philosophy & Psychology
- Mukta Karamadi, M.A., *Lecturer*, Philosophy &
& Psychology
- Sharon Silveira, M.A., *Lecturer*, Philosophy &
Psychology
- S.S. Nadkarni, M.A., *Lecturer*, Marathi
- Ravindra D. Ghavi, M.A., *Lecturer*, Marathi
- H.V. Upadhye, M.A., *Lecturer*, Hindi
- Anju P. Khaunte, M.A., *Lecturer*, Konkani
- K.G. Kamat, Ph.D., *Reader*, Chemistry
- R.A.S. Dhume, Ph.D., *Reader*, Chemistry
- V.S. Dinge, M.Sc., *Lecturer*, Chemistry
- N.R. Naik, Ph.D., *Reader*, Chemistry
- Vrinda P.S. Borkar, Ph.D., *Reader*, Chemistry
- Leena S. Talwadkar, Ph.D., *Lecturer*, Chemistry
- Annie Rajan, M.Sc., (Electronics), *Lecturer*,
Computer Awareness
- Uday S. Naik, Ph.D., *Lecturer*, Chemistry
- Vishwas S. Prabhudesai, M.Sc., *Lecturer*,
Chemistry
- Soniya Rao, M.Sc., *Lecturer*, Chemistry
- Varsha Sardesai, M.Sc., *Lecturer*, Chemistry
- S.U. Kamat, M.Sc., *Lecturer*, Mathematics
- G.V. Kulkarni, M.Sc., *Lecturer*, Mathematics
- Maria S. Miranda, M.Sc., *Lecturer*,
Mathematics.
- G.V. Kelkar, M.Sc., *Lecturer*, Physics
- Sharmila P. Kamat, M.Sc., *Lecturer*, Physics
- Sandeep S. Burye, M.Sc., *Lecturer*, Physics
- Murthy P.S. Ramu, M.Sc., *Lecturer*, Physics
- Swati R. Pawar, M.Sc., *Lecturer*, Physics
- P.G. Kelkar, Ph.D., *Reader*, Botany
- G.I. Hoicked, M.Sc., *Lecturer*, Botany
- K.G. Hiremath, Ph.D., *Reader*, Botany
- P.N. Pangu, Ph.D., *Reader*, Botany
- Mangala Prabhu Dessai, M.Sc., *Lecturer*,
Botany
- Manjiri Kelkar, M.Sc., *Lecturer*, Botany
- Y. Modassir, Ph.D., *Reader*, Zoology
- S.J. Godse, M.Sc., *Lecturer*, Zoology
- S.R. Ganihar, Ph.D., *Reader*, Zoology
- Sucheta G. Halkar, M.Sc., *Lecturer*, Zoology
- Suchana Amonkar, M.Sc., *Lecturer*, Zoology
- A.M. Nadkarni, M.Sc., *Lecturer*, Geology
- R.P. Gurav, M.Sc., *Lecturer*, Geology
- A.G. Agshikar, M.Sc., *Lecturer*, Geology
- Orlando A. Fernandes, M.Sc., *Lecturer*,
Geology
- D. S. Parab, M.Sc., *Lecturer*, Geology
- Chandrakant Porob, M.A., *Director of Physical
Education*

4.1.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Analytical Chemistry, 14/10/1998 to 17/10/1998, U.G.C., Chemistry.

4.1.6 (b) Publications (books): (Name of Teacher, Title, Publisher, Month/Year)

R. A. S. Dhume (Co-Author), *Modern's Text Book of Chemistry (1st Year B.Sc.)*, Modern Publishers,
Alto-Porvorim, 1998.

Lina Talwadker (Co-Author), *College Practical Chemistry for F.Y.B.Sc.*, Himalaya Publishing House,
Mumbai, 1998.

Lina Talwadker (Co-Author), *College Practical Chemistry for S.Y.B.Sc.*, Himalaya Publishing House,
Mumbai, 1998.

4.1.10 Any other information

NCC: Cadets Rahi Banastarikar and Anar Volvoikar attended Pre- Republic Day camp in Belgaum in November 1998.

4.2 Smt. Parvatibai Chowgule Cultural Foundations Science, Margao.

College of Arts &

4.2.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

V. R. Shirgurkar , M.A., <i>Principal</i> , Economics	Science
S. K. Naik , M.Sc., <i>Vice-Principal</i> , Chemistry	Shaila R. Ghanti , M.Phil., <i>Lecturer</i> ,
V. Narayan , M.Sc., <i>Lecturer</i> , Physics	Computer Science
V. D. Date , M.Sc., <i>Demonstrator</i> , Physics	S.R. Ingle , M.Phil., <i>Lecturer</i> , Geography
Vijay Richard D'Costa , M.Sc., <i>Lecturer</i> , Physics	S.M. Ambli , Ph.D., <i>Lecturer</i> , Geography
N.V. Kamat , M.Sc., <i>Lecturer</i> , Physics	N.N. Sawant , M.A., <i>Lecturer</i> , Geography
S. N. Pai Raiturkar , M.Sc., <i>Lecturer</i> , Physics	K. Sreedharan , M.Sc., <i>Lecturer</i> , Mathematics
S. M. Sadique , M.Sc., <i>Lecturer</i> , Physics	V.S. Amonkar , M.Sc., <i>Lecturer</i> , Mathematics
Malati Tirvir , M.Sc., <i>Lecturer</i> , Physics	Rakhi D. Karapurkar , M.Sc., <i>Lecturer</i> ,
S. A. Antao , Ph.D., <i>Lecturer</i> , Chemistry	Mathematics
S. J. Borkar , M. Sc., <i>Lecturer</i> , Chemistry	Kumaresh V.C. , M.Sc., <i>Lecturer</i> , Computer
Maria J.DeSouza , M.Sc., <i>Lecturer</i> , Chemistry	Science
S. P. S. Kakodkar , M. Sc., <i>Lecturer</i> , Chemistry	D. Prabakaran , M.C.A., <i>Lecturer</i> , Computer
Ganpat K. Naik , Ph.D., <i>Lecturer</i> , Chemistry	Science
R. S. Padiyar , M.Sc., <i>Lecturer</i> , Chemistry	Sulaxana G. Raicar , M.Sc., <i>Lecturer</i> , Computer
N.G. Rivonkar , M. Sc., <i>Lecturer</i> , Chemistry	Science
B.V. Shirwaikar , M.Sc., <i>Lecturer</i> , Chemistry	P. Ferdinand , M.A., <i>Lecturer</i> , English
N. B. Shirwaikar , M.Sc., <i>Lecturer</i> , Botany	Rajashree R. Desai , M. A., <i>Lecturer</i> , English
R.V. Gaonkar , Ph.D., <i>Reader</i> , Botany	Celeste Fernandes , M. A., <i>Lecturer</i> , English
Uma J. Patil , M.Sc., <i>Lecturer</i> , Botany	D. Majumdar , M.A., <i>Lecturer</i> , Economics
A.V. Veeresh , Ph.D., <i>Lecturer</i> , Botany	E.M. Travassos , Ph.D., <i>Lecturer</i> , Economics
M. Visalakshi , Ph.D., <i>Lecturer</i> , Botany	S.P.S. Verenkar , M.A., <i>Lecturer</i> , Economics
M.S. Anthony , M.Sc., <i>Lecturer</i> , Zoology	Aparajia Chatterjee , M.A., <i>Lecturer</i> , Sociology
P.N. Kavri , M.Sc., <i>Lecturer</i> , Zoology	S.S. Naik , M.A., <i>Lecturer</i> , Philosophy
K.N. Mishra , M.Sc., <i>Lecturer</i> , Zoology	Kavita A. Borker , M. A., <i>Lecturer</i> , Philosophy
D.K. Tikare , Ph.D., <i>Lecturer</i> , Zoology	R.V. Joshi , Ph.D., <i>Lecturer</i> , Philosophy
M. Veeresh , M.Sc., <i>Lecturer</i> , Zoology	R.V. Patil , M.A., <i>Lecturer</i> , Philosophy
S.M. Borges , M.Sc., <i>Lecturer</i> , Geology	Om Prakash Tripathi , Ph.D., <i>Lecturer</i> , Hindi
M.S. Katti , M.Phil., <i>Lecturer</i> , Geology	Lata G. Shirodkar , M.A., <i>Lecturer</i> , Hindi
M. Kunhanandan , M.Sc., <i>Lecturer</i> , Mathematics	P. Antony , Ph.D., <i>Lecturer</i> , History
Animesh Adhikari , M.Tech., <i>Lecturer</i> , Computer	S. Mayenkar , M.A., <i>Lecturer</i> , History
Science	M.D.S. Borkar , M.A., <i>Lecturer</i> , French
Alberto Ian Aquino Barreto , M.C.A., <i>Lecturer</i> ,	S.S. Phadke , Ph.D., <i>Lecturer</i> , Konkani
Computer Science	Gunaji S. Dessai , M.A., <i>Lecturer</i> , Konkani
M.C. Marchon , M.Sc., <i>Lecturer</i> , Physics	S.S. Adsul , M.Phil., <i>Lecturer</i> , Marathi
Ingrid I. Fernandes , B.Ed., <i>Lecturer</i> , Chemistry	
Sangeeta Sankhalkar , M.Sc., <i>Lecturer</i> , Botany	H.S.S.S. Nadkarni , M.Sc., <i>Lecturer</i> , Geology
M. D. Mauzo , M.Sc., <i>Lecturer</i> , Zoology	Anthony A. Viegas , M.Sc., <i>Lecturer</i> , Geology
Allan Rodrigues , M.Sc., <i>Lecturer</i> , Geology	
Neeta Damale , M.C.A., <i>Lecturer</i> , Computer	
Science	
Rupali Bhat , M.A., <i>Lecturer</i> , Economics	
Judith Dias Barreto , M.C.A., <i>Lecturer</i> ,	
Computer Science	
Suchitra Bhat , M.C.A., <i>Lecturer</i> , Computer	

Sameena Fernandes, M.Sc., *Lecturer*, Computer Science
 A.P. Masur, M.Sc., M.S., *Lecturer*, Mathematics
 Sushant S. Prabhu Sawkar, M.C.A., *Lecturer*,
 S. C. Abrol, M.A., *Lecturer*, English
 Computer Science
 D. Bagchi, M.Phil, *Director*, Physical Education

4.2.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (*Theme, Dates, Funding Agency, Department*)

Workshop for students on "Critical Appreciation of Media", 11/07/1998, Ford Foundation.
Workshop for all Goa College Chemistry teachers on "Microscale Techniques in Chemistry", 3/2/1999 to 6/2/1999, College, Chemistry.
Workshop for members of the Students' Council on "Learning to Lead", 18/08/1998, Ford Foundation.
Workshop on "Curriculum Development for teachers", 26/11/1999, Ford Foundation.

(b) (i) **Attended: Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

E. M. Travassos, *Seminar on "South East Asian Economic Crisis"*, Goa University, 14/12/1998 to 15/12/1998, *Corporate Lessons from South-East Asian Financial Crisis.*
 Rupali Bhat, *Seminar on "South East Asian Economic Crisis"*, Goa University, 14/12/1998 to 15/12/1998, *East Asian Currency Crisis.*
 Celeste Fernandes, *Seminar on "Rethinking Institutions — India and Canada"*, Goa Uniberisty, 26/03/1999, *"Rethinking Relationships — Alice Munco's "Lives of Girls and Women".*
 N. N. Sawant, *Conference on "Indian Geographers' Meet"*, Kumbakonam, Tamil Nadu, 19/02/1999 to 21/02/1999, *Patterns and Process of Urbanisation in Goa.*
 Sangeeta Sankhalkar, *National Conference on "Photo Induced Molecular Phenomena (PMP)*, Saha Institute of Nuclear Physics, Calcutta, 13/10/1998 to 16/10/1998, *"Changes in Xanthophyll Cycle and ABA content in Sorghum exposed to high light stress.*

(b) (ii) **Attended Workshops:** (*Name of Teacher, Theme of Workshop, Place, Date*)

Nandkumar N. Sawant, *Course in "Image Processing and GIS"*, National Remote Sensing Agency, Hyderabad, 29/04/1999 to 03/05/1999.
 Uma J. Patil, *Practical Course on "Principles and Techniques of Viral diagnostics for Micropropagation and flori-horticulture Industry"* Institute of Himalayan Biresource Technology, Palampur, May 03/05/1999 to 15/05/1999.
 Aparajita Chatterjee, *Rethinking Institutions in India and Canada*, Goa University, March 1999.

4.2.6 (a) **Publications (Research Articles):** (*Name of Teacher, Title, Journal, Volume, Month/Year*)

Sharma, P. K.; Anand, P; Sankhalkar S., *Oxidative damage and changes in activities of antioxidant enzymes in wheat seedlings exposed to Ultraviolet — B radiation*, **Current Science**, 75 : 359 — 366, 1998.

(b) **Books:** (*Name, Title of Book, Publisher, Year*)

S. K. Naik (co-author), *"Modern's Text Book of Chemistry" for FYBSc. Classes of Goa University*, **Modern Publishers, New Delhi**, 1999.

4.2.10 **Any other information:**

1. Principal V. R. Shirgurkar is elected the President of the AssoCiation of Indian College Principals for five years.
2. Principal V. R. Shirgurkar is one of Assessors selected by NAAC for assessment and accreditation of various colleges in the country.
3. Sydney Lemos represented Goa in the Junior National Football Championship.
4. Sonali Bhagat was selected to represent Goa in the Woman National Volleyball Championship.

5. Cdt. Under Officer Rodrigues Milly attended Republic Day BLC Camp held at Delhi.
6. Corporal Monica Cardozo won the first place in the Inter-Collegiate Rifle Shooting Competition and Cpl. Rolita Pires won the 2nd place.
7. Mrs. Philomena Sequeira Antony obtained Ph.D. in History for her thesis entitled, "Goa-Bahia Intracolony relations: 17th to 19th Centuries".

4.3 St. Xavier's College, Mapusa.

4.3.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Antimo Gomes, M.A., <i>Principal</i> , Philosophy	Sudha Chari, Ph.D., <i>Reader</i> , Philosophy
Walter De Sa, M.A., <i>Vice Principal</i> , Sociology	Blanche Mascarenhas, M.A, <i>Lecturer</i> , Economics
A. Cynarra Viera, M.A., <i>Lecturer</i> , Philosophy	Gema Fernandes, M.A., <i>Lecturer</i> , Economics
B.S. Keshavan, B.Sc., <i>Demonstrator</i> , Physics	Marlon D'Souza, M.A., <i>Lecturer</i> , Economics
Rajendra Kanekar, M.Phil., <i>Lecturer</i> , Physics	Emilia Mascarenhas, M.Sc., <i>Lecturer</i> , Botany
Benedict Soares, M.Sc., <i>Lecturer</i> , Physics	Maria Araujo, M.Sc., <i>Lecturer</i> , Botany
Dominick N. Lobo, M.Phil., <i>Lecturer</i> , Physics	Wendy Xavier, M.Sc., <i>Lecturer</i> , Botany
Pradeep Morajkar, M.Sc., <i>Lecturer</i> , Physics	Sabina Sales, M.Sc., <i>Lecturer</i> , Botany
Andrew Dias, M.Sc., <i>Lecturer</i> , Physics	Maria B.de Souza, M.Sc., <i>Lecturer</i> , Botany
Manoj Salgaonkar, M.Sc., <i>Lecturer</i> , Physics	Conceicao de Souza, M.Sc., <i>Lecturer</i> , Botany
Daryl Gonsalves, M.Sc., <i>Lecturer</i> , Electronics	A.S. Mudbidri, M.Sc., <i>Lecturer</i> , Mathematics
Vilma M. Fernandes, M.Sc., <i>Lecturer</i> , Electro.	Zita Do Carmo Souza, M.Sc., <i>Lecturer</i> , Maths.
Sindhu R. Pillai, M.Sc., <i>Lecturer</i> , Electronics	Ryan Fernandes , Ph.D., <i>Lecturer</i> , Mathematics
G.R. Dulde, M.Sc., <i>Lecturer</i> , Chemistry	Nina Caldeira, Ph.D., <i>Lecturer</i> , English
A.S. Timble, M.Sc., <i>Lecturer</i> , Chemistry	Alice Barneto D'Cruz, M.A, <i>Lecturer</i> , English
D.R. Natekar, M.Sc., <i>Lecturer</i> , Chemistry	Audrey Fernandes, M.A., <i>Lecturer</i> , English
Tushar Anvekar, M.Sc., <i>Lecturer</i> , Chemistry	Shirlene Palha, M.A., <i>Lecturer</i> , English
Edwina Fernandes, M.Sc., <i>Lecturer</i> , Chemistry	Sunita Fernandes, M.A., <i>Lecturer</i> , English
Kathleen Pinto, M.Sc., <i>Lecturer</i> , Chemistry	Tricia D. Vaz, M.A., <i>Lecturer</i> , Political Science
Isabel De Noronha, M.Sc., <i>Lecturer</i> , Chemistry	Cajetan Raposo, M.A., <i>Lecturer</i> , Political Science
Sajo Naik, M.Sc., <i>Lecturer</i> , Chemistry	Magdalene D'Souza, M.Phil., <i>Lecturer</i> , Hindi
Teotone Inas M. Vaz, M.Sc., <i>Lecturer</i> , Chemistry	Ramita Gurav, M.A., <i>Lecturer</i> , Hindi
Janesline Fernandes, M.Sc., <i>Lecturer</i> , Chemistry	Aruna Ganu, M.A., <i>Lecturer</i> , Marathi
Lourenco Mascarenhas, M.Sc., <i>Lecturer</i> , Chemistry	Vrunda Kelkar, M.A., <i>Lecturer</i> , Marathi
Marina Monteiro, M.Sc., <i>Lecturer</i> , Microbiology	Satish Bute, M.A., <i>Lecturer</i> , Konkani
Sheila Velho Martins, M.Sc., <i>Lecturer</i> , Microbiology	Dharma S. Chodanker, M.A., <i>Lecturer</i> , Konkani
Nelson D'Souza, M.Sc., <i>Lecturer</i> , Microbiology	Thomas Mendonsa, M.A., <i>Lecturer</i> , French
Ursula Pinto Barreto, M.Sc., <i>Lecturer</i> , Microbiology	B. Rajasekhar, M.Phil., <i>Lecturer</i> , Commerce/Accounts
Judith D'Souza, M.Sc., <i>Lecturer</i> , Microbiology	Maria Difa Fernandes, M.Com., <i>Lecturer</i> , Commerce/Accounts
M. Elaine Rodrigues, M.Sc., <i>Lecturer</i> , Biochemistry	Yasmin G. Patvekar, M.Phil., <i>Lecturer</i> , Commerce/Accounts
Balakrishnan C. Nair, M.Sc., <i>Lecturer</i> , Maths.	Sumina L. Da Costa, M.Com., <i>Lecturer</i> , Commerce/Accounts
Thereza Mascarenhas, M.C.A., <i>Lecturer</i> , Computer Science	Herwin Furtado, M.Com., <i>Lecturer</i> , Commerce/Accounts
Edwin A.J. D'Souza, M.C.A., <i>Lecturer</i> , Computer Science	Edna Fonseca, M.Com., <i>Lecturer</i> , Commerce/Accounts
	Dominic D'Souza, M.Com., <i>Lecturer</i> ,

Sandra Joan D'Cruz Vaz, M.C.A. Lecturer,
Computer Science
Sushmi Majumdar, M.C.A., Lecturer, Computer
Science
Jacqueline Monteiro, M.A., Lecturer,
Economics
Ruth D'Souza, M.A., Lecturer, Psychology
Anuradha Kakodkar, M.A., Lecturer,
Psychology
P. Mandrekar, M.C.M., Lecturer, Computer
Science
Ubalдина Noronha, M.A., Lecturer, Psychology
Annie Fernandes, M.A., Lecturer, Sociology

Commerce/Accounts
Oscar B. D'Mello, M.Com., Lecturer,
Commerce/Accounts
Carmelita D'Mello, M.M.S. Lecturer,
Commerce/Management
D.M. Jakatti, M.A., Lecturer, Geography
Simao Diniz, M.A., Lecturer, Psychology
J. Fernandes, M.A., Lecturer, Psychology
Pamela Fernandes, M.A., Lecturer, History
Milton Fernandes, M.P.Ed., Director, Physical
Education
Sharmila Pais, M.A. Lecturer, History

4.3.4 **Sponsored Research Projects sanctioned during the concerned academic year** (*Name of Investigator/s, Topic, Date of sanction, Funding Agency, Amount*)

Sajo P. Naik, *Synthesis, Characterization and Catalytic Activity of Hydrotalcite Catalyst*, 24/01/1999, U. G. C., Rs. 50,000/-.

4.3.5 **Seminars/Conferences/Workshops, etc.**

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Quality Management of Higher Education, 9/03/1999 and 10/03/1999, College.

(b) (i) **Attended: Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

B. C. Nair, *Indian Society of Agricultural Economics*, Mahatma Phule Krishi Vidyapeeth Ahmednagar Maharashtra, 21/12/1998 to 23/12/1998, "*Price Spread in the Marketing of Eggs in Goa*"

4.3.6 **Publications: (a) Research Articles:** (*Name of teacher, Title, Journal, Volume, Month/Year*)

B. C. Nair, "*Price Spread in the Marketing of Eggs in Goa*", **Indian Journal of Agricultural Economics, Bombay, Vol. 53, pp.397-398**, July — September, 1998.

B. C. Nair, *Viability of Poultry Farming in Goa*, "**The Veterinarian**", Bangalore, Vol. 23 pp. 15-19, August, 1998.

Sajo P. Naik, *Temperature Programme Desorption Studies on an Active ZnO Catalyst*, **Thermochimica Acta, Elsevier, Holland, Vol. 332 pp. 21-25**, April, 1999.

Nelson De Souza, *Mangrove Sediment Enzymes : Indicators of Pollution*, **Indian Journal of Environmental Protection, Vol. 12(2) pp. 132-136**, February, 1999.

4.3.10 **Any other information:**

I. Nina Caldeira obtained Ph.D. in English for her thesis entitled, "Multiculturalism and the Marginalised Psyche in Select Representative Fiction of Canada".

4.4 S.S. Dempo College Of Commerce and Economics, Panaji.

4.4.1. List of teaching staff: (Name, Qualifications, Designation, Subject)

S.L. Sardesai, M.A., <i>Principal</i> , Economics	Aruna Mesquita, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
A.M. Rangnekar, M.Sc., <i>Vice-Principal</i> , Geography	S. Mandrekar, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
A.P. Kamat, M.A., <i>Lecturer</i> , Economics	S. B. Kamat, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
S.J. Pai, <i>M.Com.</i> , <i>Lecturer</i> , Commerce	K.N. Joshi, M.Sc., <i>Lecturer</i> , Mathematics
V.H. Borkar, M.Sc., <i>Lecturer</i> , Mathematics	S.Jadhav, M.C.M., <i>Lecturer</i> , Computer
V.R. Naik, Ph.D., <i>Lecturer</i> , Economics	E. Barreto, <i>M.Com.</i> , <i>Lecturer</i> , Accountancy
N. D'Souza, M.A., <i>Lecturer</i> , Economics	Gauri Tamba, FCA, <i>Lecturer</i> , Accountancy
N. K. Naik, M.A., <i>Lecturer</i> , Economics	C.Y. Ramani, FCA, <i>Lecturer</i> , Accountancy
D.B. Naik, M.A., <i>Lecturer</i> , Environment	A.S. Sangoram, FCA, <i>Lecturer</i> , Accountancy
M. Pilgaonkar, M.Phil., <i>Lecturer</i> , English	K.D. Amlani, FCA, <i>Lecturer</i> , Accountancy
A. J. Pinto, M.Phil., <i>Lecturer</i> , English	Vinod Joshua, <i>M.Com.</i> , <i>Lecturer</i> , Accountancy
Prisca Braganza, M.Phil., <i>Lecturer</i> , Commerce	S. G. Usgaonkar, FCA, <i>Part time Lecturer</i> , Accountancy
Pravin P. Naik Gaonkar, <i>M.Com.</i> , <i>Lecturer</i> , Commerce	A.K.P. Moye, LLB, <i>Lecturer</i> , Business Law
D.D. Rodrigues, <i>M.Com.</i> , <i>Lecturer</i> , Commerce	Jamadar, M.A.B.P.Ed., <i>Instructor</i> , Physical Education Department.
Josephine Menezes, <i>M.Com.</i> , <i>Lecturer</i> , Commerce	

4.4.5 Seminars/Conferences/Workshops, etc.

- (b) (i) **Attended: Seminars/Conferences:** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

A.S. Sangoram, National Seminar on Rethinking of Institution India and Canada, Goa University, 26/03/1999

4.5 Carmel College of Arts, Science & Commerce for Women, Nuvem

4.5.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Margaret Angela A.C., M.Sc., <i>Principal</i> , Chemistry	Maria Luiza Valladares, M.A., <i>Lecturer</i> , English
Florence Mary A.C., M.Sc., <i>Vice-Principal</i> , Chemistry	Nizia Barbosa, M.A., <i>Lecturer</i> , English
Lucrecia Pereira, M. Sc., <i>Lecturer</i> , Chemistry	Roxana A. Singh, M.A., <i>Lecturer</i> , English
Matilda Madtha A.C., M.Sc., <i>Lecturer</i> , Chemistry	K.J. Augusthy, M.A., <i>Lecturer</i> , Economics
Cheryl Alvares, M.Sc., <i>Lecturer</i> , Chemistry	Rajendra, M.Phil., <i>Lecturer</i> , Physics
Fatima Fernandes, M.Sc., <i>Lecturer</i> , Chemistry	Efrem D'Sa, M. Phil., <i>Lecturer</i> , Physics
Molly Joseph, M.Sc., <i>Lecturer</i> , Zoology	Gladys Mony, M.Sc., <i>Lecturer</i> , Maths
Subhadra Devi Gadi, M.Phil., <i>Lecturer</i> , Zoology	Nora Govil, M.A., <i>Lecturer</i> , Psychology
Manoj Borkar, Ph.D., <i>Lecturer</i> , Zoology	Christabel Faria, M.A., <i>Lecturer</i> , Psychology
Vinita D'Sa, M.Sc., <i>Lecturer</i> , Zoology	Aldina Braganza, M.A., <i>Lecturer</i> , Psychology
Sarojani Katkar, M.Sc., <i>Lecturer</i> , Zoology	Shobha Verenkar, Ph.D., <i>Lecturer</i> , Hindi
Marykutty Augusthy, M.Sc., <i>Lecturer</i> , Botany	Akalpita R. Dessai, M.A., <i>Lecturer</i> , Konkani
Nirmala Joseph e Mendonca, M.Sc., <i>Lecturer</i> , Botany	Queenie Viegas, M.A., <i>Lecturer</i> , Konkani
Mini Vijayan, Ph.D., <i>Lecturer</i> , Botany	M. Aradhana A.C., <i>M.Com.</i> , <i>Lecturer</i> , Corn.
Sulabha Phatak, Ph.D., <i>Lecturer</i> , Botany	Sumathi Balakrishna, M.Phil., <i>Lecturer</i> , Corn.
Meena Miranda, M.Sc., <i>Lecturer</i> , Botany	Gladys Monterio, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
Lalita N. Patil, M.Sc., <i>Lecturer</i> , Maths	Sajani D'Costa, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
Radhilca S. Nayak, M.A., <i>Lecturer</i> , Economics	Audhoot Satardekar, <i>M.Com.</i> , <i>Lecturer</i> ,
Glancy Borges, M.A., <i>Lecturer</i> , Economics	

Emma Maria A.C., M.A., *Lecturer*, History
 Leila Ribeiro, M.A., *Lecturer*, History
 Dina D'Silva, M.A., *Lecturer*, Political Science
 Lolita D'Souza, M.A., *Lecturer*, Political Science
 Louise Ann Sequeira, M.A., *Lecturer*, Political Science

Commerce

Solley Thomas, M.C.A., *Lecturer*, Computer Awareness

Olava Menezes e Gama, M.P.Ed., *Director*, Physical Education

4.5.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Inter personal Relationship between the faculty Members, 26/06/1998 and 27/06/1998, U. G. C.

(b)(i) **Attended: Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

Manoj R. Borkar, *International Network for Bamboo & Rattan (INBAR) Beijing, China, Vth International Bamboo Congress, Costa Rica, 01/11/1998 to 07/11/1998, Bamboo Dependent livelihood patterns of Indian Fishing Communities: Social Cultural & Economics dimensions in Monograph on Bamboos.*

Manoj R. Borkar, *17th National Conference of SRBCE, Govt. Medical College Surat Gujarat, 24/01/1999 to 26/01/1999, Fine structure of the prolactin cell of female albino rat as affected by some antifertility Drug: A comparative study.*

4.5.10 Any other Information:

1. Manoj Borkar and Mini Vijayan obtained Ph.D.
2. Ten girls from the College were members of the Goa University team that won the Runners-up trophy in the Iner-University tournament held at Amritsar.

4.6 Murgaoon Education Society's College of Arts & Commerce, Zuarinagar.

4.6.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

M.S. Kamat, M.A., *Principal*, Economics

H.T. Nagvenkar, M.A., *Vice Principal*, Economics

K.S. Nairi, M.A., *Lecturer*, Economics

Rekha Gaonkar, Ph.D., *Lecturer*, Economics

Meenakshi Gedam, M.Phil., *Lecturer*, Economics

Harsha Pai, M.A., *Lecturer*, Economics

D.A. Kamat, M.Sc., *Lecturer*, Maths & Statistics

Yogeeta Rodrigues, M.Sc., *Lecturer*, Mathematics & Statistics

S.N.D. Poojary, M.A., *Lecturer*, Philosophy

Rashmi Bhargava, Ph.D., *Lecturer*, Psychology

M.C. Rodrigues, Ph.D., *Lecturer*, Political Science

A.M. Sambargi, M.Phil., *Lecturer*, Political Science

B.S. Ingallhalli, M.A., *Lecturer*, Geography

M.L. Pednecar, M.Phil., *Lecturer*, Commerce

R.B. Patil, Ph.D., *Lecturer*, Sociology

Ganesha Somayaji, Ph.D., *Lecturer*, Sociology

Sonal Thakkar, M.A., *Lecturer*, Sociology

Sandhya Bhandare Sequeira, M.Phil., *Lecturer*, English

Cidalia Bodade, M.Phil., *Lecturer*, English

Prakash Pawar, FCA, *Lecturer*, Accountancy

Sanchiliana Faria, [M.Com.](#), *Lecturer*, Accountancy

Rochan Kharangate, [M.Com.](#), *Lecturer*, Accountancy

Elona Govia, [M.Com.](#), *Lecturer*, Accountancy

Lalita Joshi, MBA, *Lecturer*, Business Management.

Ulhas Shetye, LLB, *Lecturer*, Business Law

Sandeep Kadam, M.Sc., *Lecturer*, Computer Awareness

Cosma Fernandes, M.A., *Lecturer*, Konkani

Champa Parab, [M.Com.](#), *Lecturer*, Commerce

B.V. Kolekar, [M.Com.](#), *Lecturer*, Commerce
V.V. Sail, [M.Phil.](#), *Lecturer*, Commerce
K. DeSouza, [M.A.](#), *Lecturer*, English
K. Malgaonkar, [M.A.](#), *Lecturer*, Marathi
J. Borges, [M.A.](#), *Lecturer*, Hindi

Sonali Thorat, [M.Com.](#), *Lecturer*, Commerce
Ashish Joshi, [M.Com.](#), *Lecturer*, Commerce
Savia Mendese, [M.Com.](#), *Lecturer*, Commerce
P.A. Borgave, [M.P.Ed.](#), *Sports Director*, Physical Education.

4.6.5 Seminars/Conferences/Workshops, etc.

(b) (i) **Attended: Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

Rekha Gaonkar, *Conference*, Bangalore University, Bangalore, 26/12/1998 to 28/12/1998, *Human Development Via Empowerment of Women*.

Rekha Gaonkar, *National Seminar on Rethinking Institutions in India and Canada*, Goa University, Goa, 26/03/1999, *Rural Development Programmes of the Government: An Evaluation*.

R. B. Patil, *Conference*, Aligarh Muslim University, Aligarh, 17/12/1998 to 19/12/1998, *The Roots and Genesis of the Peasant Movements in Karnataka*.

R. B. Patil, *National Seminar on Rethinking Institutions in India and Canada*, Goa University, 26/03/1999, *Struggle for Social Justice Among the Ryots of Karnataka : Some Explorations*.

Rashmi Bhargava, *Conference*, Mumbai University, 27/01/1999 to 28/01/1999, *Coping skills of old age*.

S.N.D. Poojary, *Seminar on Rethinking Institutions in India & Canada*, Goa University, 26/03/1999, *Social Justice and the Mandal Commission*.

B. V. Kolekar, *National Seminar on Dynamic Entrepreneurship*, S. V. Arts College Tirupati, 15/03/1999 to 16/03/1999, *Business Growth Strategies*.

Cidalia Bodade, *National Seminar on Rethinking Institutions in India and Canada*, Goa University, 26/03/1999, *Empowerment of Women*.

P. A. Borgave, *International Congress 98 on Management of Physical Educations and Sports*, Gwalior, 02/10/1998 to 06/10/1998, *The Director of Physical Education : His Role in the promotion of Physical Education Programme at the College level*.

B. S. Ingalhalli, *National Seminar on Rethinking Institutions in India and Canada*, Goa University, Goa, 26/03/1999, *Sustainable Development*.

(b) (ii) Attended Workshops: (*Name of Teacher, Theme of Workshop, Place, Date, Title of Paper*)

Rashmi Bhargava, *Mental Health Programmes in School*, SNDT Women's University, Mumbai, 09/11/1998 to 15/11/1998.

4.6.6 (a) **Publications (Research Articles):** (*Name of Teacher, Title, Journal, Volume, Month/Year*)

R. B. Patil, *Karnataka Rajay Raitha Sangha : From a Movement*, **Samaja Shodhana a Journal of Mangalore Sociology Association, No. 182**, March & October, 1999.

V. V. Sail, *Orientation / Refresher Courses — A participants Evaluation*, **University News**, April, 1999.

(b) **Publications (Books):** (*Name, Title of Book, Publisher, Year*)

Manoj Pednecar, *Book Keeping and Accounting (3rd Edition)*, Mumbai, Sheth Publishers Pvt.Ltd., June 1998.

Manoj Pednecar, *Financial Accounting, Auditing & Taxation*, Mumbai, Sheth Publications, October 1998.

4.6.10 **Any other information:**

1. Vincent Soundrey and Paresh Naik are members of the Goa University Football team that participated at the West Zone Inter-University Championship held at Gwalior.

2. Leena Deshpabhu was a member of Goa University Cricket Team for the Inter University Cricket Cahmpionship held at Hyderabad.
3. Irfan Dawood represented the University in the All India Body Building Competition held at Raipur (M.P.).
4. Amit Lakani was the member of the Goa University Cricket Team at Inter University Cricket Tournament held at Arnnavati.
5. Cadets Shivkumar Yadav, Ramesh Kumar Yadav and Amit Borkar participated in the Golden Jubilee Independence Day Sports Meet for N.C.C. Cadets held at New Delhi in July and August.
6. NCC Cadets Laxi Amonkar and Abu Shaikh attended National Wheeler Sailing from Mangalore to Karwar and back.
7. Miss Stefy Rodrigues represented the State of Goa at the Republic Day Parade at New Delhi.
8. Cadets Abu Shaikh, Bhagirath Singh and Ramesh Kumar Yadav attended Sea Attachment Camp at Western Naval Command, Bombay.

4.7 Shree Damodhar College of Commerce and Economics, Margao

4.7.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

G.M. Prabhudesai, M.A., <i>Principal, Economics</i>	Merilyn Gomes, M.Com., <i>Lecturer, Commerce</i>
Menon, M.A., <i>Lecturer, Economics</i>	J.M. Rebello, M.A., <i>Lecturer, English</i>
Mallaya, M.Phil., <i>Lecturer, Economics</i>	Florence Rebello, M.A., <i>Lecturer, English</i>
Sandra D'Costa, M.A., <i>Lecturer, Economics</i>	Lira S.B. Mulay, M.Sc., <i>Lecturer, Geography</i>
Lira Cardozo, M.A., <i>Lecturer, Economics</i>	R.T. Virkar, M.Sc., <i>Lecturer, Mathematics & Stat.</i>
R.T. Virkar, M.Com., <i>Lecturer, Commerce</i>	U.N. Pulapaka, M.Sc., <i>Lecturer, Mathematics & Statistics</i>
U.N. Pulapaka, M.Com., <i>Lecturer, Commerce</i>	A.R. Neelgar, M.Phil., <i>Lecturer, Mathematics & Statistics</i>
A.R. Neelgar, M.Phil., <i>Lecturer, Commerce</i>	N.G. Nayak, M.Sc., <i>Lecturer, Mathematics & Statistics</i>
N. Gopinathan, M.Phil., <i>Lecturer, Commerce</i>	J.M. Verlekar, F.C.A., <i>Lecturer, Accounts</i>
S.K.M. Bhat, M.Com., <i>Lecturer, Commerce</i>	V.F. Chimulkar, F.C.A., <i>Lecturer, Accounts</i>
Lina Kamat, M.Com., <i>Lecturer, Commerce</i>	P.P. Singh, LL.M, <i>Lecturer, Business Law</i>
Shami R. Pai, M.Com., <i>Lecturer, Commerce</i>	N. K. Naik, M.A., <i>Lecturer, Economics</i>
Anjali R. Virkar, M.Com., <i>Lecturer, Commerce</i>	S.G. Prabhudesai, M.Phil., <i>Lecturer, Commerce</i>
Sanjay P.Sawant Dessai, M.Com., <i>Lecturer, Commerce</i>	S. S. Kunde, B.E., <i>Lecturer, Computer Awareness</i>
M. Sheldarkar, B.E., <i>Lecturer, Computer Science</i>	Geeta Shenoy, PGDCA, <i>Instructor, Computer Science</i>
M. D'Mello, M.Com., <i>Instructor, Computer Science</i>	S. T. Naik, B.P.Ed., <i>Sports Director, Physical Education.</i>
Pooja Prabhudesai, M.Com., <i>Lecturer, Commerce</i>	

4.7.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Career Management Camp.in collaboration with Leslie Sawhney (a Mumbai based group), 12/09/1998 and 13/09/1998, College, Career Guidance Cell.

Workshop on Performance Appraisal and Teacher Motivation, 16/11/1998, College, Staff Academy. Public Speaking and Personality Development, 05/12/1998 and 06/12/1998, College, Students' Council.

Portfolio Management & Security Analysis, 23/01/1999, Goa University, Commerce Department.

Workshop on Preparing for the National & State Eligibility Test, 17/04/1999, College.

4.7.10 Any other information:

I. Yogesh Parab was a member of the Goa Athletic Squad that competed in Rajasthan.

Department of Common*
GOA UNIVERSITY

2. Shalini D'Cunha was a member of the Goa State Football team.
3. Nirmala D'Silva was a member of the Goa University team for the All India Inter University Football Tournament.
4. Sachin Dessai and Willia Fernandes got the 2nd and 3rd prizes in the Freedom Song Competition organised by the Government of Goa, in August, 1998.
5. Malati Pawar got the 3rd prize in the Rangoli Competition at the Inter Collegiate Youth Festival organised by the Goa University in February, 1999.

4.8 D.M's College of Arts, Sou. Sheela Premanand Vaidya College of Science and V.N.S. Bandekar College of Commerce, Mapusa.

4.8.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

R.D. Arsekar, M.A., <i>Principal</i> , Economics	A. Haladi, M.A., <i>Lecturer</i> , Economics
S.H. Kulkarni, M.Phil., <i>Vice-Principal</i> , Commerce	M. Shanthi, M.A., <i>Lecturer</i> , English
X.P. D'Souza, M.A., <i>Lecturer</i> , Economics	S.B. Karapurkar, M.C.A., <i>Lecturer</i> , Comp. Sci
S.A. Diwan, M.Sc., <i>Lecturer</i> , Statistics	Shaila Nair, M.C.A., <i>Lecturer</i> , Comp. Sci.
Jacob Varkey, M.A., <i>Lecturer</i> , History	Sangeeta Naik, M.C.A., <i>Lecture</i> , Comp. Sci.
E.J. D'Lima, M.Phil, <i>Lecturer</i> , English	Sameer M. Patil, M.Sc., <i>Lecturer</i> , Electronics
S.B. Dharwadkar, M.Phil, <i>Lecturer</i> , Geography	Sunoj P. Raicar, M.Sc., <i>Lecturer</i> , Electronics
K.G. Kakamari, M.Sc., <i>Lecturer</i> , Mathematics	V.G. Desai, M.Sc., <i>Lecturer</i> , Chemistry
T. Reena Devi, M.Com. , <i>Lecturer</i> , Commerce	Shaikh Parvez Mohammed, M.Sc., <i>Lecturer</i> , Physics
S.D. Patil, M.Com. , <i>Lecturer</i> , Commerce	Parab Yoganand Vassu, M.Sc., <i>Lecturer</i> , Physics.
M.R. Patil, M.Phil, <i>Lecture</i> , Commerce	Kadam Prashant Vithal, M.A., <i>Lecturer</i> , Economics.
Prashanti Talpankar, M.Com. , <i>Lecturer</i> , Commerce	Abhyankar Girish Gajanan, B.E., <i>Lecturer</i> , Electronics.
R.V. DuIde, F.C.A., <i>Lecturer</i> , Accountancy	Polde Atmaram Manohar, MCA, <i>Lecturer</i> , Computer Science.
S.P. Morajkar, M.Com. , <i>Lecturer</i> , Accountancy	Fernandes Amelia James, M.A., <i>Lecturer</i> , English.
Redkar Rashmi Rajendra, M.Com. , <i>Lecturer</i> , Commerce	Shirodkar Shivdatt Fatu, M.Com. , <i>Lecturer</i> , Commerce.
Kuncolienkar Smita Raj, M.Sc., <i>Lecturer</i> , Mathematics.	Naik Sanjay Madhu, M.A., <i>Lecturer</i> , Hindi.
Mascarenhas Aldrin, M.P.E., <i>Director</i> , Physical Education.	Lad Pradip Dattaram, A.C.A., <i>Lecturer</i> , Taxation.
Pawar Prakash Pundalik, F.C.A., <i>Lecturer</i> , Accountancy.	Pednekar Rajesh Manohar, M.Sc., <i>Lecturer</i> , Chemistry.
Dhavjekar G. Tukaram, LLB, <i>Lecturer</i> , Law.	Varekar Manguesh Vanamali, M.A., <i>Lecturer</i> , History
Joshi Damodar Vaman, F.C.A., <i>Lecturer</i> , Accountancy.	Alve Varsha Laxmikant, M.Sc., <i>Lecturer</i> , Chemistry
Kamat Sham Jagannath, F.C.A., <i>Lecturer</i> , Accountancy.	Rane Udaysing Vithalrao, M.Sc., <i>Lecturer</i> , Computer Science
M.V. Subhedar, M.Sc., <i>Lecturer</i> , Physics	Fernandes Menino J.A., M.Sc., <i>Lecturer</i> , Computer Science
Ferrao Anna Rovina, M.A., <i>Lecturer</i> , Economics	
Sirsat Paresh Ravindra, M.Com. , <i>Lecturer</i> , Accountancy	

4.8.2. Highlights of the research activities:

A detailed study was undertaken with an overall objective of evaluating the performance of Urban Co-operative Banks operating in the State of Goa.

4.8.5 Seminars/Conferences/Workshops, etc

(b) (i) **Attended: Seminars/Conferences:** (Name of Teacher, *Theme of Conference*, Place, Date, *Title of Paper*)

M. R. Path, National Seminar on New Dimensions for Co-operatives in India: A twenty first century perspective, *Annamalai University*, Chidambaran, 26/11/1998 to 28/11/1998, *Liquidity, Productivity and Profitability analysis of Goa Urban Co-operative Bank Ltd: A SWOT (P) Analysis*.

4.8.6 (a) Publications (Research Articles): (Name of Teacher, *Title*, **Journal**, **Volume**, Month/Year)

M. R. Path l (with B.R. Ramesh), *Evaluation of Urban Co-operative Banks in India During 1974-75 to 1993-94*, **Yojana**, May, 1998.

M. R. Patil (with B.R. Ramesh), *Towards Measuring Co-operatives Poformance*, **Co-operative Perspective**, January — March, 1999.

M. R. Patil (with B.R. Ramesh), *Liquidity, Productivity and Profitability Analysis of Goa Urban Co-operative Bank Ltd: A SWOT (P) Analysis*, **Management Accountant**, Vol. 34, No. 3, March, 1999.

M. R. Patil (with B.R. Ramesh), *Business Education : Inter Linkage and Emerging Challenges*, **Indian Journal of Commerce**, Vol. 51 No. 1, January — March 1998 (Jointly with T. M. Popekar)

4.8.10 Any other information:

1. Gautam Narvekar represented the Goa Cricket Team Under-19 in various tournaments.
2. Ashwin Revadkar of F.Y. [B.Com](#), represented the Goa Senior Team at the 44⁶ Senior National Ball Badminton Championship held at Khamam (A.P.) from 10⁶ January'99 to 14⁶ January'99.
3. A. B. Mascarenhas, Director of Physical Education won the Third Place in High Jump clearing 1.70m at the State Level Athletic Meet.
4. Amit Madwalkar, R. J. Vijaykumar and Sandeep Patil represented Goa State at the Senior National Handball Championship at Vijaywada (A.P.).
5. Angie Fernandes represented the Goa University at the Women's West Zone Inter-University Cricket Tournament 1998-99.
6. Prabhakar Narvekar and Gautam Narvekar represented the Goa University at the Men's West Zone Inter University Cricket Tournament 1998 — 99.

4.9 Gopal Govind Poy Raitucar College of Commerce and Economics, Ponda

4.9.1 List of Teaching Staff: (Name, Qualifications, *Designation*, Subject)

A.G. Jumde, M.Sc., *Principal*, Maths/Stats.

C.N. Phadte, M.Phil, *Lecturer*, Maths/Stats.

Ana Falleiro, M.Phil, *Lecturer*, Maths/Stats.

Vinay Gaonkar, M.Sc., *Lecturer*, Comp. Awareness

G.A. Borkar, M.Phil, *Lecturer*, Economics

M.M. Chikodikar, M.A., *Lecturer*, Economics

Geetanjali Urankar, M.A., *Lecturer*, Economics

S.S. Pereira, M.Phil, *Lecturer*, English

R.G. Bhatt, M.Phil, *Lecturer*, English

S.L. Singbal, F.C.A., *Lecturer*, Accountancy

S.B. Dessai, F.C.A., *Lecturer*, Accountancy

S.P. Bhat, F.C.A., *Lecturer*, Accountancy

P.G. Dandin, [M.Com.](#), *Lecturer*, Commerce

Meera Mayekar, [M.Com.](#), *Lecturer*, Commerce

Strnita G. Hede, M.Phil., *Lecturer*, Commerce

Latha Menon, [M.Com.](#), *Lecturer*, Commerce

Kanta Prabhu, M.Phil., *Lecturer*, Commerce

Prabhakar Rane, M.Phil, *Lecturer*, Commerce

G.V. Khandeparkar, LL.B., *Lecturer*, Bus. Law

P.N. Maske, M.A., *Lecturer*, Politics

Raina Pinto, [M.Com.](#), *Lecturer*, Commerce

Nitesh D. Naik, [M.Com.](#), *Lecturer*, Commerce

Mallika Fernandez, M.Sc., *Lecturer*, Geography.

Betty D'Silva, M.P.Ed., *Director of Physical Education*

P.M. Bhende, M.Phil, *Lecturer*, Commerce

4.9.5 Seminars/Conferences/Workshops, etc

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Seminar on "Higher Education", 5/02/1999 and 6/02/1999, *University Grants Commission*.

(b) (i) **Attended: Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

A. G. Jumde & P. M. Bhende, *Assessment and Accreditation by National Assessment and Accreditation Council Bangalore*, Goa University, 10/07/1998.

Vinaya Gaonkar, *Computer Awareness organised by Department of Computer Science*, Goa University, 6/07/1998.

M. M. Chikodikar, "*Economic crisis in East Asia*" organised by *Department of Economics*, Goa University, 14/12/1998 and 15/12/1998, "*East Asian Crisis*".

(b) (ii) **Attended Workshops:** (*Name of Teacher, Theme of Workshop, Place, Date*)

A.G. Jumde, First Conference of the Association of Indian College Principals, Ernakulam, 5/12/1998 and 6/12/1998.

P.M. Bhende, All India Commerce Congress 1999, Trichur, 18/01/1999 to 20/01/1999.

G.A. Borkar, National Seminar on Rethinking- Institutions in India and Canada, Goa University, 26/03/1999.

4.9.10 Any other information:

- I. Asmita Bhat a student of the college was felicitated by the Directorate of Sports Govt. of Goa, being the best Sportswoman in Goa.
2. Sonia Shirsat won the First Prize in Fine Art Competition organised by the University
3. Famiro Fernandes and Premadatta Kavelekar won the 1st Prize for Spot Painting at the Fine Art Competition organised by Goa University.
4. Sonia Shirsat, third place, at Thirteenth Indira Gandhi Memorial Inter-University Debate.
5. Sonia Shirsat, Rovina and Shaheen Akbar, students of our College were selected to represent India at the 6th SUR — Summit to be held at Moscow by Society for unknown Revolutions, Pune.
6. The College team also won the Overall Championship securing the 1st Prize in Skit, Folk Dance, Western Vocal Solo, Group Song (Western), the 1st Prize in Classical Vocal (Solo), Classical Instrumental (Percussion), Cartooning and the 3rd Prize in One Act Play, Poster Making and Clay Modelling at the Inter-Collegiate Youth Festival organised by the University.



4.10 P.E.S. College of Arts & Science, Ponda.

4.10.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

A.K. Heblekar, Ph.D, *Principal*, Physics

M.V. Dixit, M.Phil, *Lecturer*, Physics

G.V.S. Kundaikar, M.Phil, *Lecturer*, Physics

S.H.P. Keluskar, M.Phil, *Lecturer*, Physics

Mandaldni V. Rane, M.Sc, *Lecturer*, Physics

Sachin S. Desai, M.Sc., *Lecturer*, Physics

Dinge, Ph.D., *Reader*, Chemistry

§.D. Gokalcakar, M.Sc., *Lecturer*, Chemistry

A. B. Kanolkar, M.Sc., *Lecturer*, Chemistry

R.G. Shetkar, M.Sc., *Lecturer*, Chemistry

Teja V. Gramopadhye, M.Sc., *Lecturer*,

Zoology

Sunita R. Borkar, M.Sc., *Lecturer*, Microbiology

Caroline F.E. Fernandes, M.Sc., *Lecturer*,

Microbiology

V.S. Samant, M.Phil., *Lecturer*, Maths

M.N. Kulkarni, M.Sc., *Lecturer*, Maths

Mita G. Amonkar, M.Phil., *Lecturer*, Comp.

Awareness

B.V. Apte, M.A., *Lecturer*, English

B.L. Malik, Ph.D., Lecturer, Chemistry
 V.D. Vaze, M.Sc., Lecturer, Chemistry
 Vikas J. Pissurlekar, M.Sc., Lecturer, Chemistry
 Anita Tilve Manekar, Ph.D., Lecturer,
 Chemistry
 Virendra S. Dangui, M.Sc., Lecturer, Chemistry
 Brenda F. Dias Barreto, M.Sc., Lecturer,
 Chemistry
 Harsha Uskaikar, M.Sc., Lecturer, Chemistry
 Seema V. Kamat, M.Sc., Lecturer, Botany
 Kasturi N. Desai, Ph.D., Lecturer, Botany
 P. Bhattacharya, Ph.D., Lecturer, Botany
 Ranjita P. Prabhu Gaonkar, M.Sc., Lecturer,
 Botany
 Lynette Fernandes, M.Sc., Lecturer, Botany
 B. Halarnekar, M.Sc., Lecturer, Botany
 Susan Marcos, M.Sc., Lecturer, Zoology
 A.V. Deshpande, Ph.D., Lecturer, Zoology
 S.H. Bhosale, Ph.D., Lecturer, Zoology
 G.P.P. Khanolkar, M.Sc., Lecturer, Zoology
 D. K. Prabhu, M.Sc., Lecturer, Zoology
 A.V. Bhandiwad, M.Phil., Lecturer, Economics

J.G.R. Monteiro, M.A., Lecturer, Economics
 K.R. Kunkolienkar, Ph.D., Lecturer, Philosophy
 Anjali M. Rao, M.A., Lecturer, Philosophy
 V.V. Kamat, Ph.D., Lecturer, History
 Padmaja V. Kamat, M.A., Lecturer, History
 P.R. Hede, Ph.D., Lecturer, Pol. Science
 Badruddin, M.Phil, Lecturer, Pol. Science
 V.V. Prabhudesai, M.Phil, Lecturer, Marathi
 Deepak R. Chatre, M.A., Lecturer, Marathi
 S. Ramaswamy, Ph.D., Lecturer, Hindi
 Uma Priolkar, M.A., Lecturer, Hindi
 D.M. Desai, M.P.Ed., Director, Physical
 Education
 Bhushan V. Bhawe, M.A., Lecturer, Konkani
 H. Chopdelcar, M.A., Part-time Lecturer,
 Konkani
 Flavia Maria Noronha, M.A., Lecturer,
 Psychology
 Priya U. Sabnis, M.A., Lecturer, Psychology
 Deepa C. Fernandes, M.Sc., Lecturer, Zoology

4.10.2 Highlights of the research activities of the College

The Department of Botany has received a research proposal from an International Organization. The teachers in Konkani and Marathi Departments are, participating in the research activities through group projects on surveys and collection of various data in the State pertaining to the literature and culture in those languages. The teachers from English and History departments have conducted independent survey of places of religious and historical importance in this region.

4.10.4 Sponsored Research Projects sanctioned during the concerned academic year. (Name of Investigator/s, Topic, Date of Sanction, Funding Agency, Amount)

- S. R. Borkar, *Biodiversity of Alkalophiles in Natural & Man made Alkaline environments in Goa*, March, 1999, *University Grants Commission, WRO, Pune*, Rs. 34,000/-.
- S. V. Kamat, *Bioecological studies on Macrophytes wetlands of Goa*, March, 1999, *University Grants Commission, WRO, Pune*, Rs. 10,000/-.
- S. H. Bhosale, *Insect species diversity in Ponda, Goa*, March 1999, *University Grants Commission, WRO, Pune*, Rs. 40,000/-.
- Anita Tilve-Manekar, *Systematic Chemical Investigation of the Plant Grewia Microcos*, March 1999, *University Grants Commission, WRO, Pune*, Rs. 39,000/-.

4.10.5 Seminars/Conferences/Workshops, etc.

(b)(i) **Attended: Seminars/Conferences** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

- K. R. Kunkolienkar, *American Organizing Committee, XX World Congress of Philosophy*, Boston, USA, 08/08/1998 to 16/08/1998, *From Mind to Supermind : a statement of Aurubindonian approach*.



Department of Commerce
 -2a UNIVERSITY

4.11 Naval Academy, INS Mandovi, Verem

4.11.1 List of Teaching Staff: (Name, Qualification, Designation, Subject)

Cdr K.B Mehta, M.Sc. Principai, Physics	Lt P. Goel, M.Sc., Instructor, Physics
Lt Cdr T Murthy, M.Sc., Vice-Principal, Chemistry	Lt R Dwivedi, M.Sc., Instructor, Physics
Lt Cdr M Anand, M.Sc. Instructor, Maths	Lt Jason Paul, M.Sc., Instructor, Maths
Lt Cdr Indu Prakash, M.Sc., HOF, Met & Oceanography	S Lt R Balaji, B.Tech., Instructor, Maths
Lt CM Yogisha, B.Tech., Instructor, Physics	Lt Cdr S. Chalumborty, M.Sc., HOF, Physics
Sit Shalini Kansal, B.Tech, Instructor, Maths	Lt Sushma Rana, B. Tech., Instructor, Physics
	Lt Edwin Rajan, M.A., Instructor, English

4.11.2 Highlights of the research activities:

,Suitability of Goa coast for wind mills was studied

4.12 C.E.S. College of Arts & Commerce, Cuncolim.

4.12.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

D.L. Naik, M.A., Principal, History	Chatura R. S. Sancordenkar, M.A., Lecturer, Hindi
Carmen S Pais, M.A., Lecturer, History	Apoorva A. Marathe, M.A., Lecturer, Economics
Laxirnan G. Naik, M.Com., Lecturer, Commerce	Avinash V. Raikar, M.A., Lecturer, Economics
Savita S. Nadkarni, M.Phil., Lecturer, Accountancy	Maria Fatima Monteiro, M.Phil., Lecturer, English
Argemiro Rodrigues, M.Com., Lecturer, Accountancy	Prakash R. Morakar, M.Phil., Lecturer, Geography
Sarala V. Katageri, M.A., Lecturer, Political Science	Ramlal S. Vernekar, M.P.Ed., Director, Physical Education
Teja M. N. Gaunekar, M.A., Lecturer, Political • Science	Sucorina E D'Cunha, M.A., Lecturer, Sociology
Anand S. Dessai, M.Sc., Lecturer, Mathematics	

4.13 Government College of Arts, Science & Commerce, Sanquelim

4.13.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

B.A. Gomes, Ph.D., Principal, Economics	Mahendra Pednekar, M.Sc., Lecturer, Physics
Lucy James, M.A., Vice-Principal, English	D.G. Bandiwadekar, M.Sc., Lecturer, Maths.
P. N. Thomas, M.Sc., Lecturer, Botany	Santosh George, Ph.D., Lecturer, Mathematics
R. K. Tan, M.Sc., Lecturer, Botany	Ramrao Wagh, M.C.A., Lecturer, Computer Science
Dilip Arolkar, Ph.D., Lecturer, Geology	Gervasio Mendes, M.A., Lecturer, Economics
Anil Karambelkar, M.Sc., Lecturer, Geology	Agnela Dias, M.A., Lecturer, Economics
Sowmini Thomas, M.Sc., Lecturer, Zoology	Shilpa Satoskar, M.A., Lecturer, Economics
K.S. Muralidhar, Ph.D., Lecturer, Zoology	K.K. Bable, M.P.Ed., Director, Phy. Education
Preethi Thomas, M.Sc., Lecturer, Zoology	K.R. Badiger, Ph.D., Lecturer, Geography
Vaibhav Chindarkar, M.Sc., Lecturer, Zoology	Josephine Dias, M.A., Lecturer, Geography
J.P.P. Pacheco, M.Sc., Lecturer, Chemistry	
Ashok Chodankar, M.Sc., Lecturer, Chemistry	
J. Bhattacharjee, Ph.D., Lecturer, Chemistry	
Purnakala Samant, M.Sc., Lecturer, Chemistry	
M.B. Gosarwadekar, M.Com., Lecturer, Commerce	
Vanita Patil, M.Com., Lecturer, Commerce	

Varsha Sail, M.Sc., *Lecturer*, Chemistry
 Jyoti Sawant, M.Sc., *Lecturer*, Chemistry
 N.B. Bhat, M.Phil, *Lecturer*, Physics
 S. Jahagirdar, M.Phil, *Lecturer*, Physics
 Shakeel Aga, M.Phil. *Lecturer*, Physics
 Nilesh Natekar, B.E., *Lecturer*, Computer Science
 Avinash Patil, B.E., *Lecturer*, Computer Science
 Shubha Kamat, B.E., *Lecturer*, Computer Science
 C. Rao, [M.Com.](#), *Lecturer*, Commerce
 Manda Parab, [M.Com.](#), *Lecturer*, Commerce

Maria Helena Souza, M.Phil, *Lecturer*, English
 S. Jamkhandi, M.A., *Lecturer*, English
 Sayed Abdullah S.M., M.Phil, *Lecturer*, Political Science
 Rekha Mishra, M.A., *Lecturer*, History
 S.A. Joshi, Ph.D., *Lecturer*, Hindi
 Sunita Kanekar, M.A., *Lecturer*, Konkani
 Norma Rebello, Ph.D., *Lecturer*, Philosophy
 Prashant Bhonsle, [M.Com.](#), *Lecturer*, Commerce.
 Radhamani Divakar, [M.Com.](#), *Lecturer*, Commerce

4.13.2 Highlights of the research activities

Research on (i) The Role of the Press during the Portuguese rule, (ii) Stability studies of metal complexes using Nitriloacetic acid ligand and (iii) Oxidation of methanol in fuel cells using various electrocatalysts are in progress.

4.13.5 Seminars/Conferences/Workshops etc.

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Department of Commerce
 GOA UNIVERSITY

Keep Water Resources Clean, 16/03/1999, Ministry of Forests & Environment, New Delhi, Rs. 5000/-
Geology.

Workshop on Stress Management, 12/10/1998, College.

Workshop on the Conduct of Examinations, 01/04/1999, HRD cell, GCASC.

Seminar on Integration of Youth, 31/12/1998, Youth & Sports Department, Govt. of Goa, N.S.S Unit.

(b) (i) **Attended: Seminars/Conferences** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

Santosh George, I.I.T. Madras, Chennai, 22/12/1998, *Simplified Regularization in Hilbert Scales Using Finite Dimensional Approximations*.

Relcha Mishra, Department of History, Goa University & Directorate of Archives & Archaeology Govt. of Goa, Goa University, 26/03/1999, *"Portugal's Response to Goa's Struggle for Freedom"*.

Josephine Dias, ASC, Goa University (Canadian Studies), Taleigao, 26/03/1999, *Rethinking Institutions in India and Canada*.

B.A. Gomes, Goa University, 12/03/1999 and 13/03/1999, *Relevance and quality of Higher Education*.

Agnela Dias, Goa University, 14/12/1998 and 15/12/1998, *Lessons for India from the East Asian*

M.B. Ghossarwadkar, Seminar of India Accounting Associations, Jaipur, 27/02/1999 and 28/02/1999.

(b) (ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date, Title of paper)

B. A. Gomes, *Human Rights*, N.I.E.P.A. New Delhi, 9/11/1998 and 10/11/1998, *Human Rights - An Assessment*.

J.P.P. Pacheco, *National Workshop on Industrial Chemistry*, Mumbai University, 21/01/1999 to 25/01/1999.

K. R. Badiger, *IX User Interaction workshop on Users of Remote sensing data*, National Remote Sensing Agency, (NRSA), Hyderabad, 16/03/1999 and 17/03/1999.

S. A. Joshi, *Uttarshakti Aur Mahila*, Goa University, 08/03/1999 and 09/03/1999.

Purnakala Samant, *Natioanl Seminar on Rethinking Institutions in India and Canada*, Goa University, 26/03/1999

Chandreshkar Rao, *Attended one week Workshop cum training at National Institute of Audit & Accounts at Shimla on Financial Management & Audit Scrutinization for Class — A officers*, Simla, 31/05/1999 to 04/06/1999.

Sneha S. P. Mahambre, *Workshop — Gomantak Marathi Academy organised "Streevadi Drustikonatum, Marathi Sahityache Punaravlokan"*, Goa, 08/03/1999 and 09/03/1999.
Sneha S. P. Mahambre, *Study of Tukaram in Modern Perspective*, Goa University,, 22/03/1999 and 23/03/1999.

4.13.6(a) **Publications (Research Articles):** (Name of Teacher, *Title*, **Journal**, **Volume**, Month/Year)

Santosh George (with M.T. Nair), *On a Generalised Arcangeli's Method for Tikhonov Regularization with in exact Data*, **Numerical Functional Analysis and Oplimization**, **19 (788)**, 773 — 787, September — October 1998.

Purnakala V. Samant, *Nickel modified manganese oxide as an' active electrocatalyst for oxidation of methanol in fuel cells*, **Journal of Power Sources**, **79**, 114-118, 1999.

Purnalcala V. Samant, *Electrocatalytic activity of Copper — Y base zeolate catalyst*. **Recent trends in catalysis, 1999 Annual**, **230 — 235**, 1999.

(b) **Publications (Books) :** (Name, *Title of Book*, **Publisher**, Year)

J. P. P. Pacheco, *College Pratical Chemistry for S. 1'. B.Sc., (Goa University)*, **Himalaya Publishing House, Mumbai**, 1999.

J.P.P. Pacheco, *Modern's Text Book of Chemistry for F.Y.B.Sc.*, **Modern Publishers, New Delhi**, 1998.

Joydeep Bhattacharjee, *Modern's Text Book of Cehmistry for F.Y.B.Sc.*, **Modern Publishers, New Delhi**, 1998.

4.13.10 **Any other information:**

1. Sameer Nahar represented Goa University at the West Zone Inter University Badminton Tournaments 1998 — 99 held at Nasik and secured 4th Place. Also played at All India University Meet held at Bangalore.
2. Maria Norma Rebello nee Menezes obtained Ph.D. in Philosophy for her thesis entitled, "The Quest for Human Subjectivity: An essay in philosophical anthropology.

4.14 Goa College of Home Science, Panaji.

4.14.1 **List of Teaching Staff:** (Name, Qualifications, *Designation*, Subject)

Zahira Pabani, Ph.D., *Principal*

Daisy John, M.Sc., *Lecturer*,

Parvathi Rao, M.Sc., *Lecturer*

Rajal Shinkre, M.Sc., *Lecturer*, Foods & Nutrition

Sinquella de Cunha, M.Sc., *Lecturer*, Child Development

Rita Godinho, M.Sc., *Lecturer*, Textiles & Clothing

Ranju Kunkalikal, M.Sc., *Lecturer*, Foods & Nutrition

Charlotte Facho, M.Sc., *Lecturer*, Textiles & Clothing

4.15 Govt. College of Arts, Science & Commerce, Khandola.

4.15.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

John B. Fernandes, Ph.D., <i>Principal</i> , Chemistry	Christina De'Souza, M.A., <i>Lecturer</i> , Economics
Jivexa Bhattacharjee, Ph.D., <i>Lecturer</i> , Chemistry	Ana B. Gracy Fernandes, B.E., <i>Lecturer</i> , Computer Science
S.M. Gurav, Ph.D., <i>Lecturer</i> , Chemistry	Sujata Gaonkar, M.C.A., <i>Lecturer</i> , Computer Science
Jennifer Almedia, M.Sc., <i>Lecturer</i> , Chemistry	Fatima D'Souza, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
Ivone De Menezes, M.Sc., <i>Lecturer</i> , Microbiology	Artemio Fernandes, M.Phil., <i>Lecturer</i> , Corn.
Dilecta Colaco, M.Sc., <i>Lecturer</i> , Microbiology	S.V. Sukhthankar, <i>M.Com.</i> , <i>Lecturer</i> , Com.
Marina F. Albuquerque, M.Sc., <i>Lecturer</i> , Microbiology	Nilesh Borde, <i>M.Com.</i> , <i>Lecturer</i> , Commerce
Jaison Joseph, M.Sc., <i>Lecturer</i> , Physics	Bilial G. Dias, Ph.D., <i>Lecturer</i> , Political Science
P.V. Chodankar, M.Sc., <i>Lecturer</i> , Physics	Prabir Kumar Rath, Ph.D., <i>Lecturer</i> , Geography
Lucas Miranda, M.Phil., <i>Lecturer</i> , Maths.	Pravina Kerkar, M.A., <i>Lecturer</i> , Geography
Varada A. Kalas, M.Phil., <i>Lecturer</i> , Maths.	Mahesh Pai, M.A., <i>Lecturer</i> , Psychology
Manisha S. Sajane, B.E., <i>Lecturer</i> , Computer Science.	Usha P. Bhende, Ph.D., <i>Lecturer</i> , History
Rajeshree Joshi, B.E., <i>Lecturer</i> , Computer Science.	Anita S. Kumar, M.A., <i>Lecturer</i> , English
Anita Durbhatkar, M.Sc., <i>Lecturer</i> , Computer Science	Isabel Dennis, Ph.D., <i>Lecturer</i> , English
Seema P. Rath, M.A., <i>Lecturer</i> , Economics	Asha B. Gahloth, M.A., <i>Lecturer</i> , Hindi
	Sunetra P. Narvenkar, M.A., <i>Lecturer</i> , Marathi
	Prakash Vazrikar, M.A., <i>Lecturer</i> , Konkani
	T.S. Dey, Ph.D., <i>Director</i> , Physical Education

4.15.5 Seminars/Conferences/Workshops, etc

(b) (i) **Attended Seminars/Conferences:** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

Seema P. Rath, *Union Budget*, C.M.D.R. Dharwad, 19/07/1998, *Budgetary Provisions to Education in Goa.*

Prabir K. Rath, *VII Annual Conference of Bombay Geographical Association*, Bombay, 29/03/1999, *Demographic Aspects of Goa : A Geographical Analysis.*

Sunetra P. Narvenkar, Gomantak Marathi Academy, 20/02/1999, *Muktiprava Kavita*

(b) (ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date)

Di lecta Colaco and Maria Albuquerque, AMI Conference, Mangalore, 5/12/1998 and 6/12/1998

4.15.6 Publications (Research Articles): (Name of Teacher, Title, Journal, Volume, Month/Year)

S. M. Gurav, *Electrical, Magnetic and Catalytic Carbon Monoxide oxidation studies on Zn₁CoxAln204 System*, **Indian Journal of Chemical Technology**, 5, September, 1998.

S. M. Gurav, *Synthesis Characterization and catalytic CO Oxidation studies over Ni₁Cu_xMn₂O₄*, **Indian Journal of Chemistry**, 38 A, February, 1999.

(b) **Publications (Books) :** (Name, Title of Book, Publisher, Year)

Prakash Vazrikar (Co-author), *Karbari Konkani*, **Rajhans**, 1999.

4.15.10 Any other information:

1. Miss Sumita Sawant represented the Goa University in the All India Inter University Cricket Competition held at Hyderabad, Andhra Pradesh.

2. Prabir K. Rath obtained Ph.D. in Geography for his thesis entitled, "Development of Goa: A Geographical Perspective".

3. Gurav obtained Ph.D. in Chemistry for his thesis entitled, "Catalytic Oxidation of Carbon Monoxide over Manganite Spinels".

4.16 Government College of Arts, Science And Commerce, Quepem

4.16.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Bhaskar G. Nayak, M.A., <i>Principal</i> , Economics	Narayan V. Bandodkar, M.Sc., <i>Lecturer</i> , Physics
S.N. Patil, M.A., <i>Vice Principal</i> , Geography	Bernadette Gomes, Ph.D., <i>Lecturer</i> , Sociology
Renji George Amballoor, M.Phil., <i>Lecturer</i> , Economics	Reyna Sequeira, M.A., <i>Lecturer</i> , Sociology
Elizabeth J. Henriques, MA, <i>Lecturer</i> , Economics	Miguel A.B.P.C. Martins, M.Sc., <i>Lecturer</i> , Maths.
Rufina Borges, M.A, <i>Lecturer</i> , Geography	Ehrlich D. Barreto, M.Sc, <i>Lecturer</i> , Maths.
Cleopha Agnes Lobo, M.A , <i>Lecturer</i> , Geography	Mehtab Jahan Bukhari, M.Sc., <i>Lecturer</i> , Botany
Linda Maria Fernandes, M.Phil., <i>Lecturer</i> , English	Celly Quadros e Coutinho, M.Sc., <i>Lecturer</i> , Botany
P.S. Deepa, MA, <i>Lecturer</i> , English	Jovita Vina D'Costa, M.Sc., <i>Lecturer</i> , Botany
Sushila S. Mendes, M.A., <i>Lecturer</i> , History	Annie E. D'Souza, M.Sc., <i>Lecturer</i> , Botany
Remy Dias, M.A, <i>Lecturer</i> , History	Rajendra Rao Kulkarni, Ph.D., <i>Lecturer</i> , Zoology
Vidya R. Dalvi, M.Com., <i>Lecturer</i> , Commerce	Sheena Jolly, M.Sc., <i>Lecturer</i> , Zoology
Santa N. Shahapurkar, M.Com., <i>Lecturer</i> , Commerce	Juliana Silveira, M.Sc., <i>Lecturer</i> , Zoology
Anthony Sathish B., M.Phil., <i>Lecturer</i> , Accountancy	Rita Narayan Sharma, M.Phil., <i>Lecturer</i> , Zoology
Purva Hegde Dessai, C.A., <i>Lecturer</i> , Accountancy	Beena K. Vernekar, M.Sc., <i>Lecturer</i> , Chemistry
Parasharam A. Patil, M.Com., <i>Lecturer</i> , Accountancy	Maria Jacqueline Menezes, M.Sc., <i>Lecturer</i> , Chemistry
Asha A. Mangutkar, M.A., <i>Lecturer</i> , Marathi	Govind A. Kelkar, M.C.A., <i>Lecturer</i> , Computer Science
Ashok D. Mangutkar, M.A., <i>Lecturer</i> , Marathi	Onkar L. Ainapur, M.Sc., <i>Lecturer</i> , Computer Science
Bharati K. Parab, M.Phil., <i>Lecturer</i> , Hindi	Olivia E. Pinto, B.E., <i>Lecturer</i> , Computer Science
Brijpal Singh Galloth, M.A., <i>Lecturer</i> , Hindi	Philip A. Rodrigues, B.E., <i>Lecturer</i> , Computer Science
Seema P. Salgaonkar, M.A, <i>Lecturer</i> , Political Science	Rajan Mathew, M.P.Ed, <i>Director</i> , Physical Education
Constancio Fernandes, M.A., <i>Lecturer</i> , Political Science	
Rajay R. Pawar, M.A, <i>Lecturer</i> , Konkani	
Shirish D. Kamat, M.Sc., <i>Lecturer</i> , Physics	

4.16.2 Highlights of the research activities:

A Research Project on Finances of Goa State funded by the Goa Chamber of Commerce and Industries has been carried out.

4.16.5 Seminars/Conferences/Workshops etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Theatre Art Orientation Programme, 11/11/1998 to 20/11/1998, *Kala Academy, Panaji*, Students Council.

Bal Melawa, 09/04/1999 to 11/04/1999, *Sane Guruji Janmashatabdi Samaroh Samiti Goa & Utkarsh High School, Rivona, Goa*, Students Council.

f Konlcani Yuva Sahitya Sammelan, 12/12/1998 to 13/12/1998, *Goa Konkani Academy*, Literacy Study Circle.

4.16.10 Any other Information

1. Andrew Clemento, Sudhir Dessai and Jasbir Goes represented Goa University at the All India University Cross Country Cahmpionships held at Kanpur (U.P.)
2. Govind Bhisse, Sachin Naik and Kapil Nayak represented Goa University at the All India Inter-University, Weight Lifting & Power Lifting Championship held at Raipur (M.P.).
3. Sudhir Dessai & Andrew Clemento represented Goa State (U-20) at the West Zone Athletic Chapionships held at Udaipur. (Rajasthan).

4.17 Rosary College of Commerce & Arts, Navelim

4.17.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Newman Fernandes, M.A., *Principal,*
Psychology

Savio Falleiro, MA., *Lecturer,* Economics
Neeta Mazumdar, M.Phil., *Lecturer,*
Mathematics

Anna Rodrigues, M.A., *Lecturer,* English
Filipe Rodrigues e Melo, M.Com., *Lecturer,*
Corn. & Accountancy

Bhalchandra Gaonkar, M.A., *Lecturer,* Konkani
Robert Fernandes, M.Com., *Lecturer,*
Commerce & Accountancy

Afonso Botelho, M.A., *Lecturer,* Sociology

Priya Carvalho, M.A., *Lecturer,* English

Helic Barretto, M.Com., *Lecturer,* Commerce &
Accountancy

Sonia F. Vaz, M.A., *Lecturer,* Economics

Tanya Marchon, M.A., *Lecturer,* Psychology

Jim Barreto, M.Com., *Lecturer,* Commerce &
Accountancy

Alison Dias, M.A., *Lecturer,* History

Juao C. Costa, M.Com., *Lecturer,* Corn. &
Accountancy

Charmaine D'Souza, M.Com., *Lecturer,*
Commerce & Accountancy

Rita Braganza, M.A., *Lecturer,* History

Eulalia Almeida, M.A., *Lecturer,* Psychology

Smita Naik Fernandes, M.A., *Lecturer,*
Geography

Prema Rocha, M.A., *Lecturer,* English

John M. Alfonso, M.Com., *Lecturer,* Commerce
& Accountancy

Precy Fernandes, MCA., *Lecturer,* Computer
Awareness

Francis X. Lobo, M.P.Ed., *Director of* *Phy. Edu.,*
Phy. Education

4.17.2 Highlights of the research activities

Research on the Growth of Tourism Industry in Goa and Impact of Tourism in Goa has been carried out.

4.17.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Stress Management, 20/08/1998.

Quality Management in Higher Education, 28/08/1998 and 29/08/1998.

Image of Woman in Konkani Literature, 12/09/1998 and 13/09/1998.
Role Perception & Motivation, 28/11/1998.
Contribution of Schools to the Environmental Protection of Goa, 27/02/1999, *AIACHE*.

(b) (i) **Attended: Seminars/Conferences:** (Name of Teacher, *Theme of Conference*, Place, Date, *Title of Paper*)

Filipe Rodrigues, *Department of Tourism Kurukshetra University*, Kurukshetra, 08/03/1999 to 10/03/1999, *Structure of Growth of Tourism Industry in Goa — a case study*.
Newman Fernandes, *Department of Tourism Kurukshetra University*, Kurukshetra, 08/03/1999 to 10/03/1999, *Impact of Tourism in Goa*.

(b) (ii) **Attended Workshops:** (Name of Teacher, *Theme of Workshop*, Place, Date)

Savio Falleiro, "*Training in College Adm. For Principals & Vice Principals*", Bangalore, 22/05/1999 to 27/05/1999.
Rita Braganza, "*Mando & Social History: Some Reflection*", Goa University, 26/03/1999 and 27/03/1999.
Juaoc C. Costa, "*Newly appt. lecturers Orientation Course*", Bangalore, 09/05/1999 to 18/05/1999.
Precy Fernandes, "*Newly appt. Lecturers Orientation Course*", Bangalore, 15/05/1999 to 20/05/1999.
Filipe Rodrigues, "*Awareness Campaign against AIDS, Alcohol and Tobacco*", Bangalore, 21/05/1999 to 25/05/1999.
Prema Rocha, "*Orientation Course for Newly Appt Women Lecturers*", Bangalore, 15/05/1999 to 20/05/1999.

4.17.6 (a) **Publications (Research Articles):** (Name of Teacher, *Title*, **Journal**, **Volume**, Month/Year)

Bhalchandra Gaonkar, "*Bhas Sahitya ani Vavrovoll*", **Konkani Journal**, November, 1998.

(b) **Publications (Books):** (Name, *Title of Book*, **Publisher**, Year)

Bhalchandra Gaonkar, "*Sahitya: Ek Bhasabhas*", **Mitra Prakashan**, January 1999.

4.18 Saraswat Vidyalaya's College of Commerce & Management Studies, Mapusa

4.18.1 **List of Teaching Staff:** (Name, Qualifications, *Designation*, Subject)

Dhirendra M. Deshpande, M.Phil., <i>Principal</i> , Commerce	Henriques D'Souza, M.A., <i>Lecturer</i> , Economics, Snwuti Haldankar, B.E., <i>Lecturer</i> , Computer Science.
Santosh Patkar, M.Phil., <i>Lecturer</i> , Commerce	Jayesh Churi, M.P.Ed., <i>Director</i> , Physical Education
Sukhaji Naik, <i>M.Com.</i> , <i>Lecturer</i> , Accountancy	Divakar Joshi, A.C.A., <i>Lecturer</i> , Accountancy
Pragati Bhonsle, <i>M.Com.</i> , <i>Lecturer</i> , Accountancy	Archana Kanekar, M.A., <i>Lecturer</i> , Economics
Satyajit Hirve, <i>M.Com.</i> , <i>Lecturer</i> , Accountancy	Ira Bhattacharya, M.Phil., <i>Lecturer</i> , English
Smita Shrivastava, M.M.S., <i>Lecturer</i> , Management	Prakash Tamhankar, M.Sc., <i>Lecturer</i> , Maths. & Stat.
Sterol Godinho, <i>M.Com.</i> , <i>Lecturer</i> , Management	Sajo V. Gawas, L.L.M., <i>Lecturer</i> , Law.
Sharmila Borkar, M.A., <i>Lecturer</i> , Economics	

4.16.10 **Any other Information**

Pankaj Naik represented Goa at the National Games held at Pune in Badminton.
Sheetal Redkar represented Goa in National Games held at Hyderabad in Kabaddi.
Felix D'Souza represented Goa at the National Games held at Bangalore in Football.

Girish Pednekar & Prajakta Dhulapkar represented Goa in the Senior Judo Nationals held at Bangalore. Pankaj Naik represented Goa University at the Zonal varsity Badminton Tournament held at Pune.

4.19 Fr. Agnel College of Arts and Commerce, Pilar

4.19.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Bibial G. Dias, Ph.D., <i>Principal</i> , Political Science	Anthony Rodrigues, M.Com. , <i>Lecturer</i> , Commerce
Mario D'Souza, M.B.A., <i>Lecturer</i> , Economics	Beula Pereira, M.A., <i>Lecturer</i> , Sociology
Roy Alvaro Gomes, M.A., <i>Lecturer</i> , Economics	Fr. F. Rodrigues, M.A., <i>Lecturer</i> , Sociology
Mini Gangadharan, M.A., <i>Lecturer</i> , Economics	Loren Diniz, M.Sc., <i>Lecturer</i> , Maths & Computer
Annie Shakoor, M.A., <i>Lecturer</i> , English	Santosh Chyari, M.A., <i>Lecturer</i> , Hindi
Maria Da'Cruz, M.A., <i>Lecturer</i> , English	Rajeshree Sail, M.A., <i>Lecturer</i> , Konkani
Nazarana Shaik, M.A., <i>Lecturer</i> , Political Science	Agnelo Dias, M.P.Ed, <i>Physical Director</i> , Physical Education
Hazel Colaco, M.Com. , <i>Lecturer</i> , Commerce	Soraya Sa, M.A., <i>Lecturer</i> , History
Regi George, M.Com. , <i>Lecturer</i> , Commerce	

4.19.2 Highlights of the research activities:

Research work on Industrial Disputes — A case study of Goa Shipyard, Vasco is under progress. The study includes causes, consequences and settlement of Industrial disputes at Goa Shipyard Limited.

4.20 Shree Mallikarjun College of Arts & Commerce, Canacona

4.20.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

G.S. Badiger, Ph.D., <i>Principal</i> , Geography	Sucheta Naik, M.Phil., <i>Lecturer</i> , Commerce
F.M. Nadaf, M.A., <i>Lecturer</i> , Geography	Rupa Chari, M.A., <i>Lecturer</i> , Hindi
C.P. Hiremath, Ph.D., <i>Lecturer</i> , Geography	Puranand Chari, M.A., <i>Lecturer</i> , Konkani
V.R. Pawaskar, M.A., <i>Lecturer</i> , English	Domital D'Souza, M.A., <i>Lecturer</i> , History
Tanuja Fal Desai, M.Sc., <i>Lecturer</i> , Maths	Nityanand Naik, M.A., <i>Lecturer</i> , Konkani
Kshama Desai, M.Com. , <i>Lecturer</i> , Commerce	Sushama Salokhe, M.A., <i>Lecturer</i> , Marathi
Sandesh Sawant, M.Com. , <i>Lecturer</i> , Commerce	Arvind HaldanIcar, M.A. <i>Lecturer</i> , Sociology
Jagmohan Singh, M. A., <i>Lecturer</i> , Economics	Joselyn Henriques, M.A., <i>Lecturer</i> , History
Geeta Walwekar, M.A., <i>Lecturer</i> , Economics	Pramada Naik, M.A., <i>Lecturer</i> , Marathi
Rakshi Mhalshi, M.Phil, <i>Lecturer</i> , Hindi	Ajay Naik, L.L.B., <i>Lecturer</i> , Business Law

4.20.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Theme, Dates, Funding Agency, Name of Department)

The Challenges for College in the New Millennium, 02/02/1999, Self

4.21 Government College of Arts & Commerce, Pernem.

4.21.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

M.M. Sangodkar, Ph.D., *Principal*, Political Science

Oscar C.N. de Noronha, M.A., *Lecturer*, English

G.A. Hegde, M.Com., *Lecturer*, Commerce

Gajanan V. Madiwal, M.Com., *Lecturer*, Commerce

Namdeo M. Gawas, M.Com., *Lecturer*, Com.

Xavier M Martin, Ph.D., *Lecturer*, History

Soniya R. Sirsat, M.A., *Lecturer*, Hindi

Nirmala D. Joanita De Abreu, M.A., *Lecturer*, Economics

B.K. Haravi, M.A., *Lecturer*, Geography

Ishani Roy, M.Phil., *Lecturer*, Geography

Amrita A. Binge, M.A., *Lecturer*, Hindi

Neeta R. Tome, M.A., *Lecturer*, Marathi

Satish N. Sanval, M.A., *Lecturer*, Economics

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4.22 Narayan Zantye College of Commerce, Bicholim

4.22.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Arun Sakhardande, M.Com., *Principal*, Commerce and Business Management

Rajesh Amonkar, M.Com., *Lecturer*, Commerce & Business Management

Sankaranarayanan K.G., M.Com., *Lecturer*, Commerce & Business Management

Nayana Sail, M.Com., *Lecturer*, Accountancy & Cost & Management Accounting

Rajendra Kumbharjuvenkar, M.Com., *Lecturer*, Commerce & Business Management

Ramehandra Surlekar, M.M.S., *Lecturer*, Commerce & Business Management

Nandini Kamat, M.Sc., *Lecturer*, Mathematics

Smita Potdar, M.A., *Lecturer*, Economics

Pravin Sawant, M.Com., *Lecturer*, Accountancy & Cost & Management Accounting

Jhimli Adhikari, M.C.A., *Lecturer*, Computer Science

Sherin Sheikh, M.A., *Lecturer*, English

Bipin Bandekar, M.Com., *Lecturer*, Accountancy & Cost & Management Accounting

Satyavan Hartnalkar, M.P.Ed., *Sports Director*, Sports

Sudhir Halvegar, M.Lib., *Librarian*, Library

Shree Shantadurga Kunkolikarine Saunsthan College of Arts and Conunerce,
Fatorpa

Admissions for the non-professional courses during the 1998-99

	B.A.			B.Sc.			B.Com.			Vocational			Total
	F. Y.	S.Y.	T.Y.	F.Y.	S.Y.	T.Y.	F. Y.	S.Y.	T.Y.	F.Y.	S.Y.	T.Y.	
1.DHEM	146	85	89	112	105	108							645
2.CHOW	137	81	104	293	139	168				30			952
3.XAVI	187	179	174	187	134	169	176	158	151				1515
4.DEMP							340	239	164				743
5.CARM	118	105	76	33	64	45	80	70	36				627
6.MESC	138	104	76				250	237	98				903
7.DAMO							353	267	204	38	64		926
8.BAND	48	34	24	50	45	35	400	204	117	20			977
9.GVMC							314	192	142				648
10.PESC	140	106	87	121	97	124							675
11.INSM				43	54	33							130
12.CESC	14	01	33				23	01	22				94
13.GSAN	79	64	72	94	68	68	114	62	47				668
14.GHOM				50	34	35							119
15.GKHA	43	24	26	43	46	39	85	56	25				387
16.GQUE	73	72	59	60	40	45	157	70	32				608
17.ROSA	86	63	37	-	-	-	169	48	32	27			462
18.SARA							169	127	100				396
19.AGNE													
20.MALL	60	54	39				41	37	16				247
21.GPER			79						66				145
22.ZANT							159	65	57				281
Total	1269	972	975	1086	826	869	2830	1833	1309	115	64		1,2148

(b) Professional Colleges

4.23 Goa College of Pharmacy, Panaji

4.23.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

M. G. Pal , M Pharm., <i>Principal & Assistant Professor</i> , Pharmaceutical Chemistry	L. Silveira , M.Sc., <i>Lecturer</i> , Pharm. Chemistry
S.S. Amonkar , M.Pharm, <i>Lecturer</i> , Pharma. Chemistry.	R.V. Gaitonde , Ph.D., <i>Professor</i> , Pharmacognosy
Anthony Menezes , M.Pharm., <i>Lecturer</i> , Pharm. Chemistry	M.P. Bhobe , M.Pharm., <i>Lecturer</i> , Pharmacognosy
Lilian Almeida , M.Pharm., <i>Assistant Professor</i> , Pharm. Chemistry	R.V. Keny , M.Pharm., <i>Assistant Professor</i> , Pharmaceutics
T. V. Walke , M Pharm., <i>Lecturer</i> , Pharm. Chemistry	M.H.S. Godinho , M.Pharm., <i>Lecturer</i> , Pharmacology
Y.Sardesai , M.Sc., <i>Lecturer</i> , Pharm. Chemistry.	R. S. Gude , M. Pharm., <i>Lecturer</i> , Pharmaceutics.
D.M. Shingal , M.Pharm., <i>Asst. Professor</i> , Pharmaceutical. Analysis	R. Shirodkar , M.Pharm., <i>Lecturer</i> , Pharmaceutics.
	P. Bhide , M. Pharm., <i>Lecturer</i> , Pharmaceutics.

4.23.5 (b) (i) Attended: Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Date, Title of Paper).

D. M. Shingbal, Mumbai, 10/12/1998 to 13/12/1998, *Development & Validation of Spectrophotometric method of analysis for Clonazepam USP XXIII.*

R. K. Shirodkar, Mumbai, 10/12/1998 to 13/12/1998, *A Simple Validated Spectrophotometric method for the estimation of Fluoxetine HCl.*

(b) (ii) Attended Workshops: (Name of Teacher, Theme of Workshop, Place, Date)

M.H.S.Godinho and M.P. Bhobe, *Training Teachers for Tomorrow's Needs*, Belgaum, 01/06/1998 to 1507/1998.

M.H.S. Godinho, *Update in Pharmacy Education*, Mumbai, 16/11/1998 to 05/12/1998.

4.24 College of Engineering, Farmagudi.

4.24.1 List of Teaching Staff: (Name, Qualifications, Designation, Department)

Department of Civil Engineering

A.M. Deshmulch, Ph.D, *Professor*.

P.D. Pal, M.E., *Asstt. Professor*

S.B. Sheldalkar, M.E., *Asstt. Professor*

P.R. Mutgi, M.E., *Asstt. Professor*

Chandrakant S. Gokhale, M.E., *Asstt. Prof*

A.K.S. Bhanduria, M.E , *Asstt. Professor*

K.G. Guptha, M.E., *Asstt. Professor*

S.N. Betagiri, B.E., *Lecturer*

S. Misquita, Ph.D., *Lecturer*

Ganesh Hegde, B.E., *Lecturer*

Mrs. Wilma Fernandes, B.E., *Lecturer*

Mrs. Shanti Balasubramaniam, M.E., *Lecturer*

H.S. Parsonakumar, M.E., *Lecturer*

Ms. Nisha Amonkar, M.E., *Lecturer*

Purnanand Saviokar, M.E., *Lecturer*

Vikas Chodankar, B.E., *Lecturer*

Mrs. Ujwala Phadke, M.Sc., *Lecturer*

A.A. Jalihal, M.Sc., *Lecturer*

Department of Computer Engineering

R.P. Adgaonkar, Ph.D., *Professor & Head*
J.A. Laximinarayana, M.E., *Asstt. Prof*
Ms. Maruska Mascaranhas, B.E., *Lecturer*
Nilesh Fal dessai, B.E., *Lecturer*
Ms. Geeta Varkey, B.E., *Lecturer*
S.A. Bakal, B.E., *Lecturer*
A.U. Bapat, B.E., *Lecturer*

Department of Electronics & Telecommunication Engineering

K. R. Pai, Ph.D., *Professor & Head*
R. B. Lohani, Ph.D., *Professor*
P. Raja, M.E., *Asstt. Professor*
V. N. Shet, M. Tech., *Asstt. Professor*
M. Tamhane, M. Tech., *Asstt. Professor*
M. Gadag, M. Tech., *Asstt. Professor*
V. Colacao, B.E., *Lecturer*
A.Chimulkar, B. E., *Lecturer*
H. G. Virani, B.E., *Lecturer*
Colacao, B. E., *Lecturer*
J. S. Babu, M.E., *Lecturer*

Department of Electrical Engineering

S.N. Lall, Ph.D., *Principal*
Smt. Jyotsna Kamal, M.E., *Asstt. Professor*
V.K. Joseph, M.E., *Asstt. Professor*
Smt. Jaimol Thomas, M.E., *Assm Professor*
S.P. Borkar, M.E., *Asstt. Professor*
G.R. Kuncolienkar, M.E., *Lecturer*
Smt. Krishna Kumari T, B.Tech., *Lecturer*
Smt. Chanda Pathak, *Lecturer (On study Leave)*
M.Srinivas Rayudu, M.Tech., *Lecturer*
Ms. Sangeeta Mahaddalkar, B.E., *Lecturer*
Anant Naik, B.E., *Lecturer*
Smt. Sunitha Raikar, B.E., *Lecturer*
Ms. Pranali Kulkarni, B.E., *Lecturer*
Ms. Audrey Colaco, B.E., *Lecturer*
Smt. Philomena Rodrigues, M.A.(Eng.),
Lecturer
Anirdh S. Chari, M.Sc.(Physics), *Lecturer*

4.24.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Solid Waste Management with Geosynthesis, 17/03/1999 to 31/03/1999, IS.T.E., New Delhi, Civil.
Applications of Geosynthetics in Civil Mining Engg., 26/03/1999, LS.T.E., New Delhi, Civil.
P. C. Maintenance, October, 1998, *Academic Staff College, Goa University*, Computer.
BITS 'N' BYTES, 21/09/1999 and 22/09/1999, *Cursor*, Computer.

(b) (ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date)

Rajesh PrabhuGaonkar, *AICTE ISTE Short term course on "Quality Costs: Estimation & Techniques of Reduction*, Ramdeobaba Kamla Nehru Engg., College, Nagpur, 27/09/1999 to 08/10/1999.
Rajesh PrabhuGaonkar, *AICTE ISTE Short term course on "Recent Trends in Refrigeration Technology"*, K.R.E.C. Suratkal, 12/11/1999 to 26/11/1999.
J.Sakhardande, and D. V. Shirodkar, *AICTE-ISTE Short term course on "Recent Trends in Refrigeration Technology"*, 12/11/1999 to 26/11/1999, K.R. E. C. Suratkal.
Maruska Mascarenhas and Geeta Varkey, *VLSI for the Information Appliances*, Goa, 7/01/1999 to 10/01/1999.

4.24.6 Publications (Research Articles) : (Name of Teacher, Title, Journal, Volume, Month/Year)

G.S.Gokhale, "*Electrical Resistivity Behaviour of Sandstones*", **Proceedings of 1st International Congress of International Association of Engineering Geology**, Cannadapp, 543-550, 21-25 September, 1998.
C.S.Gokhale, "*Influence of Moisture on Triaxial Compression Behaviour of Soft Rocks*", **Proceedings 2nd International Symposium on Hard soils and soft rocks**, Italy pp. 245-252, 11-14 October, 1998.
C. S. Gokhale, "*Strength and Index Properties of Sedimentary Rocks*", **Proceedings of International Society of rock Mechanics Regional Symposium on sedimentary rock engineering**, Taiwan R.O.C. pp. 91-96, 20-22 November 1998.

4.24.10 Any other information

- I. Shri Anandaprasanna Gaitonde of B. E. (E) stood Second in GATE —99 Examination.
2. Winners of 'Infofest 1999' conducted by MCA Department of Goa University.

4.25 Nirmala Institute of Education, Panaji

4.25.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Jennifer Fonseca, Ph.D, <i>Principal</i>	Kunda Anil Borde, M.Ed, <i>Lecturer</i>
Gil Raul Do Rosario Alberto, M.Ecl, <i>Lecturer</i>	Vida Sequiera, M.Ed, <i>Lecturer</i>
Beulah Mendez, M.Ed, <i>Lecturer</i>	Denzil F.M. Martins, M.Ed, <i>Lecturer</i>
Sharmila Francisca Veloso, M.Ed, <i>Lecturer</i>	Gopal Chandra Pradhan, Ph.D, <i>Lecturer</i>
Rhoda Ferrao Almedia, M.Ed, <i>Lecturer</i>	Susanta Kumar Pradhan, Ph.D., <i>Lecturer</i>
Sergio Carvalho, M.Ed, <i>Lecturer</i>	Suvarna S. Gauns, M.Ed., <i>Lecturer</i>
Nicholas Francis D'Souza, M.Ed, <i>Lecturer</i>	Diana D'Souza, M.Ed, <i>Lecturer</i>

4.25.1 Highlights of the research activities:

A Research Project entitled "Factors Affecting Occupational Aspirations of College Student" was carried out by G. C. Pradhan.

4.25.4 Sponsored Research Projects sanctioned during the concerned Academic Year (Name of Investigator/s, Topic, Date of Sanction, Funding Agency, Amount)

- Jennifer Fonseca, *Educational Administrators in Goa: A study of their roles and responsibilities, Managerial skills, Leadership styles and the problems they encounter*", 31/03/1999, U. G. C., Rs. 31,000/-.
- Gopal Pradhan, *Comparative Inter & Intra Examiners Reliability between Marking & Grading*" 31/0/19, U. G. C., Rs. 35,000/.

4.25.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Theme, Dates, Funding Agency, Name of Department)

Two Workshops in Research Methodology in Social Sciences for College teachers of Goa, Nirmala Institute of Education.

Career Master's Certificate Course for school teachers in collaboration with the Department Extension Services at Nirmala Institute of Education, Panaji.

(b) (ii) Attended Workshops: (Name of Teachers, Theme of Workshop, Place, Date)

- J. Fonseca, S. Veloso, S. K. Pradhan, G. C. Pradhan, *Virtual Conference "Learning: The Treasure Within"* Goa University, 25/01/1999.
- J. Fonseca, *Workshop on Assessment and Accreditation*, Goa University and National Assessment and Accreditation Council.
- J. Fonseca and S. Pradhan, *Seminar on "Higher Education on the threshold of 21" Century — Challenges and Opportunities*, G.V.M.'s Shri Gopal Govind Poy Raiturkar College of Commerce and Economics.

4.25.8 (b) **Ph.D. degrees conferred during the year: (Name of Candidate, Subject, Title of the Thesis, Name of the Guide)**

Beulah Mendez, Education, "*Qualitative study of the Impact of Rational Emotive Therapy on high school girls exhibiting Emotionally Disturbed Behaviour*"*B.K.Passi.*

4.25.9 Achievements:(Ranks/Merits in the University Examinations/Sports Activities)

(a)Academic: (Name of Student, Achievement (i.e. rank etc.), Examinations)

4.25.10 Any other information:

1. A Remedial Education programme in the English Language was launched in Standard V at Santa Cruz High School.

2. A Certificate course for pre-school teachers was started.

3. Mrs. Maria Abranches secured 1st Rank in B.Ed.

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GOA UNIVERSITY

4.26 Goa College of Art, Panaji.

4.26.1 **List of Teaching Staff: (Name, Qualifications, Designation, Subject)**

D.V. Navelkar, G.D.Art, *Principal*,

A.R. Shirodkar, G.D.Art, *Lecturer*, Applied Art

S.R. Borkar, G.D.Art, *Lecturer*, Applied Art

Anthony D'Souza, **B.F.A.**, *Lecturer*, Applied Art

M. Vengurlekar, **B.F.A.**, *Lecturer*, Applied Art

Rajeev Shinde, **B.F.A.**, *Lecturer*, Applied Art

Wilfred Goes, **B.F.A.**, *Lecturer*, Applied Art

D. Harihar, G.D.Art, *Lecturer*, Painting

S.P. Chendvankar, G.D.Art, *Lecturer*, Painting

S. Prabhudessai, **B.F.A.**, *Lecturer*, Applied Art

Donmic Cordo, **B.F.A.**, *Lecturer*, Applied Art

A.H. Farooqui, G.D.Art, *Lecturer*, Painting

Rohini Kakode, G.D.Art, *Lecturer*, Painting

H.R. Kambli, **M.F.A.**, *Lecturer*, Painting

M.M. Chodankar, **M.F.A.**, *Lecturer*, Painting

Digambar Singbal, **B.F.A.**, *Lecturer*, Painting

Omprakash Naik, **M.F.A.**, *Lecturer*, Painting

Harsha Mandurkar, **M.F.A.**, *Lecturer*, Painting

4.23.3 **List of visiting Scholars: (Name of Scholar, Institutional Affiliation, Title of Lecture, Date)**

V. M. Sholapurkar, *Special Lectures in the Subject Visual Art*, 08/01/1999 to 13/01/1999.

4.23.5 **Seminars/Conferences/Workshops, etc.**

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Print making workshop/Exhibition, 10/01/1999 to 22/01/1999, *College and Lalit Kala Academy Regional Centre Chennai.*

4.23.10 **Any other information: ?**

1. Shri H. R. Kambli visited Western Michigan University, Kala Mazoo Michigan on a Fullbright Fellowship during the period January to May 1999. He was also invited as Artist-in-Residence at the Bob Blackburns Print Making workshops in New York.
2. Smt, Harsha Mandurkar, Shri Donmic Cordo, and Shri Shivaji Shet a Final Year Painting student were given awards in the exhibition organised by Lalit Kala Academy, New Delhi in collaboration with Kala Academy, Goa.
3. Miss Pranali Datta Naik, secured 1st Rank in B.F.A. (Painting).
4. Miss Amruta Arun Patil secured 1st Rank in B.F. A. (Applied Art).

Aquaviva Fernandes, M.D.S., *Lecturer*,
Prosthodontics
Ivy Fernandes e Coutinho, B.D.S., *Lecturer*,
Prosthodontics
P.K. Chandra, M.D.S., *Professor*, Orthodontics
Anna Vaz, M.D.S., *Asstt. Professor*, Orthodontics
Violet Barbosa, M.D.S., *Lecturer*, Orthodontics
Ajit D. Dinkar, M.D.S., *Professor*, Oral
Medicine & Radiology
Shaheen Badbade, M.D.S., *Lecturer*, Oral
Pathology
Shama Patil, M.D.S., *Lecturer*, Oral Medicine &
Radiology

Samir Dutta, M.D.S., *Professor*, Pedodontics
Nandini Kamat, B.D.S., *Lecturer*, Pedodontics
Steven Rodrigues, M.D.S., *Lecturer*, Pedodontics
Jyoti Rao, M.D.S., *Asstt. Professor*, Periodontics
James Samuel, M.D.S., *Lecturer*, Periodontics
Amita Kenkre, M.D.S., *Asstt. Professor*,
Community Dentistry
Anita Spadigam, M.D.S., *Asstt. Professor*, Oral
Pathology
Vikas Dhupar, M.D.S., *Lecturer*, Oral Surgery
Francis Alckara, M.D.S., *Lecturer*, Oral Surgery

4.29.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Cons. Pedo Workshop, 28.3.1999 to 29.3.1999, *Self*, Conservative Dentistry & Pedodontics.
Workshop on Orthognatic Surgery, 5.12.1998 to 6.12.1998, *Self*, Oral & Maxillofacial surgery.

(b) (i) **Attended: Seminars/Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*).

Rahul Wagle, *Cons. Pedo*, Goa, 28/03.1999 to 29/03/1999, *Significance of additional canal in endodontics*.

4.29.6 (a) **Publications (Research Articles):** (*Name of Teacher, Title, Journal, Volume, Month/Year*)

Aquaviva Fernandes, *Restoration of Endodontics*, **Endodontology**, Vol. 10 issue-2, December 1998.
Aquaviva Fernandes, *True pressure sensiting problem*, **J.I.S.P. Vol. 1 issue-3**, December, 1998.
Aquaviva Fernandes, *Enlargement and appliance*, **J.I.S.P. Vol. 2 issue-1**, April, 1999.
Vikas Dhupar and Francis Alckara, *New application of modified segiteld spint remus ostcology*, **Indian Journal of Dental maxillofacial surgery**, Vol. XIII No. 4, December, 1998.

4.29.9 **Achievements:** (*Ranks/Merits in the University Examinations/Sports Activities*)

(a) **Academic:** (*Name of Student, Achievement (i.e. rank etc.), Examinations*)

4.29.10 **Any other information:**

Kum. Delilah Dias secured 1st Rank in B.D.S.

4.30 Goa College of Architecture, Panaji

4.30.1 **List of Teaching Staff:** (*Name, Qualifications, Designation, Subject*)

Cho Padamsee, AADIP, *Principal*, Architecture
A.R.A. Antao, Dip. In Architecture, *Asstt. Professor*, Architecture
Ashish K. Rege, M.Planning (Housing), *Asstt. Professor*, Architecture
Madhavi Dixit Navare, B. Arch (Housing), *Asstt. Professor*, Architecture
Zeenat Andani, B. Arch, *Lecturer*, Architecture

Lawrence Rodrigues, G.D. Arch., *Lecturer*, Architecture
Roy D'Souza, B. Arch, *Lecturer*, Architecture
Sanjay Belurkar, B. Arch, *Lecturer*, Architecture
Salvin T. Goes Dias, B. Arch., *Lecturer*, Architecture

4.30.2.. **Highlights of the research activities of the College:**

A research topic momentarily titled "Dos and Donts in Local Goan Houses", targeting mainly students of architecture is being attempted to make aware of constructional and design mistakes and to offer remedial and/or better alternatives to avoid such mistakes.

4.30.5 **Seminars/Conferences/Workshops, etc.**

(a) **Organized:** (*Theme, Dates, Funding Agency, Department*)

Workshop on Electrical Systems/Working drawings by Albert D'Souza, 10/03/1999, Government of Goa.

(b)(i) **Attended:Seminars/Conferences:**(*Name of teacher, Theme of Conference, Place, Date, Title of Paper*)

Ashish K Rege, *CNCDP Lisbon, Portugal*, University of Coimbra, Portugal, 02/03/1999 to 06/03/1999, *Evolution of Margao in Goa through Portuguese Era (1510-1961 AD).*

Lawrence Rodrigues, *Rajasthan Agricultural University, Udaipur*, 01/10/1998 to 14/10/1998, *Consequences of climatic Changes + remedial measures.*

Lawrence Rodrigues, *Indian Galvanizers Association, Goa*, 22/02/1999, *Distress control thro use of Galvanized reinforced steel.*

Lawrence Rodrigues, *Goa University, Goa*, 14/05/1999 to 10/06/1999, *Orientation Course.*

(b)(ii) **Attended Workshops:** (*Name of Teacher, Theme of Workshop, Place, Date*)

Ashish K. Rege, *The Humane Habitate — affordable Housing*, Rizvi College of Architecture, Bandra, Mumbai, 23/01/1999 to 26/01/1999.

Ashish K. Rege, *The Portuguese Urbanistic Universe*, Coimbra in Portugal, March 1999, *Evolution of Margao in Goa through the Portuguese Era (1510 — 1961 AD).*

4.30. 6 (b) **Publications (Books):** (*Name, Title of Book, Publisher, Year*)

Ashish K. Rege, *Models of Urbanism during the early phase of the Portuguese, Spanish and English settlement in Asia : A comparative study*, **CNCDP, Lisbon**, 1998.

Ashish K. Rege, *Traditional Residential Architecture in Portugal*, **Fundacao Orient, Lisbon, Portugal**, September, 1998.

Ashish K. Rege, *Evolution of Margao in Goa through the Portuguese Era (1510 — 1961 AD)*, **Coimbra in Portugal**, March 1999.

4.30.10 **Any other information:**

1. Mahesh Laxman Khalap secured 1st Rank at the Fifth Year Architecture examination.
2. Mr Guruprasad Mantravadi, a Year V (Final) student of the Goa College of Architecture has been awarded a Second Prize in the Design Competition held by the Indian Institute of Interior Designers at their 3rd National Convention & Showcase; 98, Baroda in December this year.
3. Mr. Mayur Borkar, a Year V (Final) student of the Goa College of Architecture has been awarded Charles Correa prize for the best Design Thesis.

4.31 Goa College of Music, Panaji

4.31.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Kamalakar Naik, M.Music, Principal
S.S. Karandikar, M.Music, Lecturer, Vocal
Manab Das, M.Music, Lecturer, Sitar '
H.V. Burl, D.Music, Lecturer, Vocal

Ulhas Velingkar, M.Music, Lecturer, Tabla
Prabhakar Chari, Traditional Professional
Musician, Lecturer, Tabla

4.31.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Theme, Dates, Funding Agency, Name of Department)

Workshop on vocal music conducted by Pt. V. R. Athavale from Mumbai; 05/10/1998 to 08/10/1998, Government, Goa College of Music, Campal, Panaji Goa.

Workshop on Tabla conducted by Pt. Arvind Mulgaonkar from Mumbai, 19/01/1999 to 22/01/1999, Government, Goa College of Music, Campal, Panaji Goa.

(b)(i) Attended: Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

Kamalakar Naik, Gomantak Marathi Akademy, Panaji, 14/03/1999, Importance of Music in Human life and its relation with other forms of Art.

4.32 Institute of Nursing Education, Panaji

4.32.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Carol Noronha, M.Sc.(Nursing), Principal
Anna Raute, M.Sc.(Nursing), Lecturer

4.33 Goa Vidyaprasarak Mandal's College of Education, Ponda

4.33.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

Louis Vernal, M.Ed., Principal, Education
Allan Abreo, M.Ed, Lecturer, Education
M.U. Paily, M.Ed, Lecturer, Education
Sebastian J. Pinto, M.Ed, Lecturer, Education
Jojen Mathew, Ph.D., Lecturer, Education
Joaquim Godinho, M.Ed., Lecturer, Education

Anna George, M.Ed, Lecturer, Education
Shubhangui Jumde, M.Ed, Lecturer, Education
Sunil Kumar, M.Ed, Lecturer, Education
G.C. Naik, M.Phil., Lecturer, Education
M. S. Suku Saji, M.Ed., Lecturer, Education

4.33.5 Seminars/Conferences/Workshops, etc.

(b) (i) **Attended:** Seminars/Conferences: (Name of Teacher, *Theme of Conference*, Place, Date, *Title of Paper*)

Louis Vernal, XXXII Annual Conference of I.A.T.E. Bangalore, 27/12/1998 to 29/12/1998, '*Inservice Education of Teacher Educators*'.

(b) (ii) **Attended Workshops:** (Name of Teacher, *Theme of Workshop*, Place, Date)

Ganesh C. Naik, *Workshop on Basic skill for searching Social Science information at CRISP, Bhopal, 01/02/1999 to 04/02/1999.*

4.33.6 (a) **Publications (Research Articles)** Name of Teacher, *Title*, **Journal**, **Volume**, Month/Year)

Louis Vernal, *Training Teachers for Multi Grade Teaching*, **The Indian Journal for Teacher Education, Volume I, Number 1**, August, 1998.

Louis Vernal, *Thinking and Technology in Education*, **University News, Volume 36, Number 36**, September, 1998.

M. U. Paily, *Towards Higher Standards in the Education of Teacher Educators*, **University News, Volume 37, Number 10**, March, 1999.

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4.34 Gomantak Ayurveda Mahavidyalaya & Research Centre, Shiroda.

4.34.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

B. V. Sathaye, Ph.D., *Principal*, Sharir Kriya.
Aruna Bale, B.A.M.S., *Lecturer*, Sharir Kriya,
Padarth Vidnyan

Neelesh Korde, B.A.M.S., *Lecturer*, Sharir
Rachana, Ashtang Sangraha

Mona Chaurasia, M.D., *Lecturer*, Rasashastra
Nagaraja Samaga, M.D., *Lecturer*, Dravyaguna
Vidnyan

Upendra Dixit, M.D., *Lecturer*,
Ashtangsangraha, Charak

Vinayak Joshi, M.D., *Lecturer*, Rognidan Vikruti
Vidnyan

Anil Panse, M.D., *Lecturer*, Kayachikitsa
Madhavilata Dixit, M.D., *Lecturer*,
Swasthavrutta

Somnath Hebli, B.A.M.S., *Lecturer*, Sharir ICriya

Joshua Algal, B.A.M.S., *Lecturer*, Samhita.

Deepali Naik, B.A.M.S., *Lecturer*, Agadtantra

Mrudula Joshi, M.D., *Lecturer*, Sharir Kriya,
Sanskrit

Savita Naik, B.A.M.S., *Lecturer*, Balrog
Shrinivas Gujjarwar, M.D., *Lecturer*,
Shalyatantra

Deelip kumar, M.D., *Lecturer*, Rasashastra
Deepali Naik, B.A.M.S., *Lecturer*, Streerog
Sampat Bhatane, M.D., *Lecturer*, Shalakyia
Prashant Sangekar, B.A.M.S., *Lecturer*, Sharir
Rachana

Sadashiv Tengse, Kavyateertha, Lecturer,
Sanskrit

Reshma Sangekar, B.A.M.S., *Lecturer*,
Dravyaguna

Madhavi Suradkar, M.D., *Lecturer*,
Kayachikitsa

Raghuram Ayyagari, M.D., *Lecturer*,
Kayachikitsa

34.2.2 Highlights of the research activities:

The Sharir Rachana and Sharir Kriya departments have undertaken project of elaborating Panmahabhat concept by specific models that will serve as long term teaching aids. Kayachikitsa and other clinical departments have undertaken projects related to erihine (Nasya) from compilation available from 23 classical texts it will provide your cast effective safe remedies for variety of elements that report to O.P.D. of Kamakshi Arogyadham.

4.34.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (Theme, Dates, Funding Agency, Department)

Seminar on Modern Trends in Ayurved, 16/01/1999, Bharteeya Sanskriti Proboodhini's Gomantak Ayurveda Mahavidyalaya and Research Centre, Sharir.

(i) **Attended: Seminars/Conferences:** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

Neelesh Korde, Govt. Ayu. Medical college, Bangalore, 24/01/1999, Anatomical consideration of Sringatabe Marma.

Neelesh Korde and Anura Bale, G. A. M. & R. C., Shiroda, 16/01/1999, Teaching Aids in Sharir.

4.34.6 (a) **Publications (Research Articles):** (Name of Teacher, Title, Journal, Volume, Month/year)

Upendra Dixit, Information network in Ayurveda, Ayurved Patrika (Nasik), September, 1998.

4.35 Goa Medical College & Hospital, Bambolim

soectrion of **Corneal,**
(OA UNIVERSITY)

4.35.1 List of Teaching Staff: (Name, Qualifications, Designation)

M. N. Pal, M. D., Dean

Department of Anatomy

A.V. Mainker, M.S., Professor & Head
Meenakshi V. Bargi, M.S., Associate Professor
Aroona A. Nagarsenkar, M.S., Asstt. Professor
Prashant E. Natekar, M.S., Asstt. Professor
Usha P. Bhate, M.S., Lecturer
Prakash R. Pai, M.S., Lecturer
M. P. Dias, M.S., Asstt. Lecturer
Rajani N. Dubhashi, M.S., Asstt. Lecturer
Deepa H. Kamat, M.B.,B.S., Asstt. Lecturer
Uday Kudalkar, M.B.,B.S., Asstt. Lecturer
Nilam R. Madhale, M.B.,B.S., Asstt. Lecturer

Department of Physiology

M. E. Abraham, M.D., Professor
A.S.Borkar, M.D., Associate Professor
F. Monteiro, M.D., Asstt. Professor
Anne Noronha, M.D., Lecturer
S.D.Sahakari, M.D., Lecturer
M.D.Nagvekar, M.D., Lecturer
J.P.Pednekar, M.D., Asstt. Lecturer
S.R.Sardesai, M.D., Asstt. Lecturer
S.S.Audi, M.B.B.S., Asstt. Lecturer
F. DeSouza, M.S., Asstt. Lecturer
S. S. Pandarbale, M.B.B.S., Asstt. Lecturer
M.P. Verenkar, M.D., Professor & Head
Savio Rodrigues, M.D., Associate Professor
Neena Kharangate, M.D., Lecturer

Department of Microbiology

Venkatesh Naik, M.D., Lecturer
Maria J.W. Pinto, M.D., Lecturer
Padamjit N. Singh, M.D., Asstt. Lecturer
Ramona D'Souza, M.D., Asstt. Lecturer
Gurleep Kaur, M.D., Asstt. Lecturer
Sandhya Estibeiro, M.B.B.S., Asstt. Lecturer

Department of Forensic Medicine

B.N. Reddy, M.D., Professor & Head
S.D. Sapeco, M.D., Asstt. Professor
E.J. Rodrigues, M.D., Lecturer
A.V. Fernandes, M.B., B.S., Assn. Lecturer

Department of Biochemistry

Shanti Panummi, M.D., Professor
Asha A. Naik, M.D., Assts. Professor
P.P. Nadkarni, M.D., Asstt. Professor
Tanuja Kamat, M.D., Asstt. Lecturer
Chitra Dhume, M.D., Asstt. Lecturer
Manisha Audi, M.D., Asstt. Lecturer

Department of Pathology

Nisha S. Nadkarni, M.D., *Professor & Head*
R.G.W. Pinto, M.D., *Associate Professor*
M.V. Mallya, M.D., *Asstt. Professor*
Avril Dias, M.D., *Lecturer*
Francisco F.D. Couto, M.D., *Lecturer*
Prarnila Souza Rocha, M.D., *Asstt. Lecturer*
Suresh R.S. Mandrekar, M.D., *Assn. Lecturer*
Sanjyot A. Nadkarni, M.D., *Asstt. Lecturer*
Deline Menezes, M.D., *Assn. Lecturer*
Sangeeta Amonkar, M.D., *Asstt. Lecturer*
Sachin Palyekar, M.B.B.S., *Asstt. Lecturer*
Domnic J. Lobo, M.D., *Asstt. Lecturer*
Seeta Pal Raiturkar, M.B.B.S., *Asstt. Lecturer*

Department of Radiology

Mahesh G. Sardesai, M.D., *Professor & Head*
Jeevan A. Vernekar, M.D., *Associate Professor*
Sanjay Sardesai, M.D., *Lecturer*
Renny Furtado, M.D., *Lecturer*
A.K. Pandey, M.D., *Lecturer*
Almeida, M.D., *Lecturer*

Department of Skin & V. D.

M.F. M. Miranda, D.D.V., *Asstt. Professor and
Acting Head*
Pankaj Shukla, M.D., *Lecturer*

Department of Orthopedics

U.G. Nachinolcar, M.S., *Professor & Head*
C. Barefto, M.S., *Associate Professor*
S.M. Bandekar, M.S., *Asstt. Professor*
Z.D'Mello, M.S., *Lecturer*

Department of Neurology

V.N. Jindal, M.S., *Professor & Head*
Ponraj K. Sundaram, M.Ch., *Assm Professor*
Farook Sayed Ahamed, D.N.B., *Lecturer*

Department of Pharmacology

V.G. Dhume, M.D., *Professor*
R.S. Diniz D'Souza, M.D., *Associate Professor*
S.S. Hede, M.D., *Asstt. Professor*
J.S.C. Pereira, M.D., *Lecturer*
S.A. Bhounsule, M.D., *Lecturer*
P.N. Bhandare, M.D., *Asstt. Lecturer*
P.V. Rataboli, M.D., *Asstt. Lecturer*
Sunita B. De Sa, M.D., *Asstt. Lecturer*

Department of Preventive and Social Medicine

D.D. Motghare, M.D., *Professor & Head*
A.M. Ferreira, M.D., *Asstt. Professor*
K. Quenim, M.D., *Lecturer*
J.A. Cacodkar, M.D., *Lecturer*
V.D'Souza, MA., *Lecturer Health Education*
M.S. Kulkarni, M.Sc., *Lecturer*
Vanita Pinto, M.D., *Asstt. Lecturer*
Gokuldas Gawde, MBBS, *Asstt. Lecturer*

Department of Medicine

C.P. Kapoor, M.D., *Professor & Head*
N.G. Dubhashi, M.D., *Associate Professor*
L. Kamat, M.D., *Associate Professor*
J.P. Tiwari, D.M. *Asso. Professor.*
S.Y. Natekar, M.D., *Asstt. Professor*
E. Gomes, M.D., *Asstt. Professor*
Rebello, M.D., *Lecturer*
A. Khandeparkar, M.D., *Lecturer*

Department of T. B. & Chest Diseases

A.M. Mesquita, M.D., *Professor*
Durga J. Lawande, M.D., *Associate Professor*
A.L. Da Costa, M.D., *Asstt. Professor*
Uday C. Kakodkar, M.D., *Lecturer*
Lalita Fernandes, M.D., *Lecturer*

Department of E. N. T.

C.P. Das, M.S., *Professor & Head*
H.C. Goel, M.S., *Associate Professor*
Sandesh Chodankar, Diploma, *Assn. Prof*
Carnegie De Sa, Diploma, *Lecturer*

Department of Ophtalmology

Pradeep G. Naik, M.S., *Professor & Head*
Ugam P.S. Usgaonkar, M.S., *Asstt. Professor*
Vivek Naik, M.S., *Asst. Professor*

Department of Gynaecology

Prasad Nevrekar, M.D., *Professor. & Head*
Milan Bhandare, M.D., *Associate Professor*
Anjali Kamat, M.D., *Asstt. Professor*
Savita Chandra, M.D., *Asstt. Professor*
Guru Prasad Pednekar, M.D., *Lecturer*
Manjusha Jindal, M.D., *Lecturer*

Department of Anaesthesiology

Marilyn P. Nazareth, M.D., *Professor & Head*
Dalia D. Bhandare, M.D., *Associate Professor*
Sitaram V. Korgaonkar, M.D., *Asstt. Prof*
Shaila Kamat, M.D., *Asstt. Professor*
Shirley A. D'Souza, M. D. , *Lecturer*
Yvonne Menezes, M.D., *Lecturer*
Leena Goel, M.D., *Registrar*

Department of Paediatrics

Philomena D'Souza, M.D., *Asso. Professor & Acting Head*
Maria Silveira, M.D., *Asst Professor*
Balasubramanian Iyer, DNB, DCH, *Lecturer*

4.35.2.. Highlights of research activities:

Department of Physiology

Effect of smoking and alcohol on total RBC count platelet count and differential WBC count in rats. Effect of isometric contraction on blood pressure in subjects with and without family history of hypertension using a hand grip dynamometer. Effect of light/darkness on rats reproductive cycles; reproduction and effects on offsprings. Effect on stress on 1st year medical students. Effect of Tulsi on reproductive behaviour in female rats, litter size, survival of litters period of Gestation. Effect of amygdoloid lesion on body weight and food and fluid intake in male rats.

Department of Pharmacology

Marine Pharmacology: The Department is one of the centres of the national Project 'Development of Potential Drugs from the Ocean' funded by Department of Ocean Development, Govt. of India, New Delhi During the year samples sent by other centres were screened for their effect on cardiac and smooth muscles of guinea pigs. Gastrointestinal Pharmacology: Experiments to elucidate the mechanisms of gastrointestinal motility in case of some antibiotics were carried out. Clinical Pharmacology: Therapeutic Drug Monitoring of antiepileptic drugs was continued. Sos also Adverse Drug Reaction Monitoring was carried out.

Department of Pathology

Clinicopathological study of Tumours of testis & adnexa. Clinicopathological study of leprosy in Goa. Clinicopathological study of Oral & Oropharyngeal cancers.

Department of Microbiology

Bacteriological study of fine needle aspirates of lymph nodes. Study of Gram Negative non fermentors from clinical specimens. Screening of gastric Biopsy specimens for Helicobacter pylori. Usefulness of QBC parasite detection system in oasis of Malaria. Projection of Malaria in Goa. Prevalence of Parasitic ova in stools — a random study. Evaluation of Lactophenol cotton blue for wet mount of faeces. Prevalence of cryptosporidium in stools of HIV+VE persons. Etiology of HIV related diarrhoea. Prevalence of Toxoplasmosis in Goa. Prevalence of Toxoplasmosis in HIV + VE persons. HbsAg, VDRL & HIV positivity in promiseous individuals. Raising of Antisera to common pathogens in Rabbits. Screening of sera from cases of PUI for Brucella antibody. Significance of candida species from stool samples. Drug sensitivity testing of Mycobacteria isolated from HIV + YE persons — in collaboration with B.J. Medical College, Pune. Prevalence of HIV subtypes in collaboration with NARI, Pune.

Department of Surgery

Vasco D'Silva, M.S., *Professor & Head*
Oswald D'Sa, M.S., *Associate Professor*
A.N. Jadhav, M.S., *Associate Professor*
D.P. Amonkar, M.S., *Asstt. Professor*
F.P. Noronha, M.S., *Asstt. Professor*
Jude Rodrigues, M.S., *Lecturer*
Rajesh T. Patil, MS, *Lecturer*

Department of Dermatology, Venereology & Leprology.

M.F.M. Miranda, DNB, *Asstt. Professor*
Pankaj Shulda, M.D., *Lecturer*

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Department of Skin and VD

Clinical patterns of drug reactions: All adverse reactions to various drugs presenting to the hospital are being studied in detail clinically and investigated for hematological and bio-chemical abnormalities. ROM treatment in Leprosy: All patients presenting with a single lesion of leprosy are being investigated and treated with a single dose of Rifampicin, Ofloxacin and Microcycline and are being followed up.

Department of TB and Chest

Pattern of PFT in Goan individuals. Role of corticosteroids in tuberculous pleural effusions.

Department of Orthopedic Surgery

Management of intertrochanteric fractures. Comparison of results between operatively and conservatively managed cases was done. Epidemiology of intertrochanteric fractures, February 1996 to February, 1999. A study of the Epidemiology of intertrochanteric fractures which presented at Goa Medical College was carried out in a cohort of 150 cases.

Department of Preventive and Social Medicine

A retrospective study on "Mortality and its relevance to Epidemiologic transition in Goa" was completed. Across sectional study on "Prevalence and some associated risk factors of coronary heart diseases in Goa" was completed.

4.35.4 **Sponsored Research Projects sanctioned during the academic year:** (Name of Investigator/s, Topic, Date of sanction, Funding Agency, Amount)

D. D. Motghare, "Evaluation of National Pulse Polio Immunization Programme, February, 1999, All India Institute of Medical Sciences New Delhi and Indian Clinical Epidemiology Network, Rs. 1,00,000/-.

4.35.5 **Seminars/Conferences/Workshops, etc.**

(a) Organized: (Theme, Dates, Funding Agency, Name of Department)

Cadaveric Flap Workshop, 27/11/1998, Indian Society for Surgery of the Hand, Anatomy & Orthopaedics.

A National level CME on Recent Advances in Cardiovascular Therapy, 07/11/1998 & 08/11/1998. 28" J.A.C. Conference, 19/11/1998 to 22/11/1998, Pathology.

Annual Cyto-Pathology Conference, 20/11/1998 to 22/11/1998, Pathology.

Syndromic Approach, 16/04/1999 and 17/04/1999, DHS, Skin LV.D.

Live Surgery Workshop on Phako Emulsification, 10/02/1999, Lion's Club of Bicholim, Ophthalmology.

Workshop on Retrograde Intubation for Management of difficult airway, 12/09/1998, I.S.A., Anaesthesiology

Seminars on 'Prevention of Hospital Infection', 07/10/1998, Staff Society.

Fluid Therapy in Burns, 16/10/1998, Staff Society.

Handling an Anaesth. Mishap, 30/10/1998, LS.A.

C.P.R., 15/01/1999, Hoechst.

Stress and the Anaesth, 26/04/1999, I.S.A.

Update on Hospital Management, 23/04/1999 and 24/04/1999, Goa Medical College, GMC, UGNOU and AIIMS.

Neurosciences CME-99, 20/02/1999 and 21/02/1999, Neurosurgery.

(b) (i) Attended Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

S.R. Sardesai, *Regional Instt. Of Medical Sciences, Imphal, 27/12/1998 to 29/12/1998, Effect of stress body weight and feeding behaviour in rats.*

Chitra Y. Dhume, *Medical College*, Medical College Belgaum, 02/10/1998 to 05/10/1998, *Biochemical alterations in Malaria*.

Shanti Pannani, *E.P.A.T.-99*, Taj Goa, January, 1999, *Carnitine-its antioxidative status*.

Savio Rodrigues, Ramona D'Souza and Gurleen Kaur, *Indian Association of Medical Microbiologists*, Kasturba Medical College, Manipal, 07/11/1998 to 09/11/1998, *Filarial worm in eye Mycobacteria in FNA of LN Aeromonas in Goa*.

M. F. M. Miranda, *I ADVL (MYSORE) 8" South Zone Conference*, Mysore, 06/11/1998 to 08/11/1998, *Vulvar squamous cell carcinom HIV, Trauma, Synergistic effect*.

Vasco D'Silva, A. N. Jadhav, Jude Rodrigues, *One day CME*, Indian Association of Physical & Medical Rehabilitation in Goa, October, 1998.

Jude Rodrigues, *Annual Conference of International College of Surgeon (Indian Section) and Conference of ICS of SAARC countries*, Indore, September, 1998.

Vasco D'Silva, R. Jude Rodrigues, *CME on Neurosciences*, Department of Neurosurgery in Goa, December, 1998.

S. Korgaonkar, *Vth National Critical Care Congress*, Calcutta, 06/01/1999, *Mosquito repellent poisoning*.

C.P. Das, *South Zone ENT Conference*, Bangalore, 14/07/1998 to 17/07/1998, *Septoplasty/S.M.R.*

M. S. Kulkarni, *Dept. of Biostatistic, Christian Medical College, Vellore*, Chennai, 19/11/1998 to 21/11/1998, *Appraisal of Mortality and its relevance to Epidemiologic transition in Goa, and Co-authored by Dr. D.D. Motghare and Dr. A. M. Ferreira*.

(b) (ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date)

S. D. Sapeco and A. V. Ferrnandes, *International Conference & Workshop in Recent Advances in Medical Toxicology and Legal Medicine*, New Delhi, November 1998.

Jeevan A. Vernekar, *Advanced Ultrasound Review Course '99*, Bombay, 09/04/1999 to 11/04/1999.

M. N. Pal, Hyderabad, *M2 tone Syrup in the treatment of unexplained infertility in female at AICOG*, December, 1998.

4.35.6 (a) **Publications (Research Articles):** (Name of Teacher, Title, Journal, Volume, Month/Year)

F. Nazarine, F. Anita, Rataboli, P.V., Diniz D'Souza R. S. and Dhume, V.G., *Pharmacological activities of extracts of some marine animals and plants on isolated tissues of the guinea pig*, **Indian Journal of Marine Sciences**, 27, 499 — 501, 1998.

Rataboli., P.V., Naik, V.R. Kunkolienkar, A.G. Diniz D'Souza R. S. and Dhume, V.G. *A study of serum concentration, adverse effects and clinical response during polytherapy with diphenyldantoin, phenobarbitone and carbamazepine in epileptic patients*, **Neurosciences Today**, 11/1 & 2, 46-50, 1998.

Verenkar M.P. etal, *Study of Mycotic Keratitis in Goa*, **Ind. J. of Medical Microbiology**, Vol. 16, No.2, page 58, April, 1998.

A.M. Mesquita, Lalita Fernandes, *Thyrotoxicosis induced exacerbation of asthma*, **Current Medical Trends**, II, 1998.

A. M. Mesquita, Lalita Fernandes, *Sleep disordered breathing*, **Archives of Goa Medical College**, III, 1999.

Anil Mehndiratta, Durga Lawande, A. M. Mesquita, *Oxygen Therapy*, **Archives of Goa Medical College**, III, 1999.

Anil Mehndiratta, Durga Lawande, *IPF in Polyarticular Rheumatoid arthritis*, **Current Medical Trends**, 1999.

Anil Mehndiratta, A. L. Da Costa, Durga Lawande, *Empyema necessitans in a case of osteomyelitis of rib*, **Indian Journal Tuberculosis**, I, 1999.

M. N. Nazareth, L. Goel, *Aids and the Anaesthesiologists*, **Archives of G.M.C.**, August, 1999.

M. S. Kulkarni, *"Appraisal of Mortality and its Relevance to Epidemiologic Transition in Goa"*, **Archives of Goa Medical College**, August, 1999.

M. N. Pal, Vandana Tanksale, *Ms tone syrup in the treatment of unexplained infertility in females at AICOG at Hyderabad*, **OBG-Today**, IV No. 2., February, 1999.

4.35.9 Any other information:

1. Department of Pathology was awarded Laheri Trophy for research work.
2. Dr. Neychelle Chahal won the 2nd Prize in award winning paper section in 8th National Conference of IADVL held at Bangalore.
3. Dr. Jude Rodrigues conferred upon the fellowship of International College of Surgeons at Indore.
4. Dr. Anil C. P. got the Gold Medal for M. D. Anaesth.

4.36 Shri Kamaxidevi Homoeopathic Medical College & Hospital, Shiroda Goa.

4.36.1 List of Teaching Staff: (Name, Qualifications, Designation)

Arvind Kothe, D.H.M.S., <i>Principal & Professor, Mat.Medica.</i>	R.G. Totekar, G.C.E.H., <i>Lecturer, Organon</i>
R. B. Desai, M.Sc., <i>Professor, Anatomy.</i>	S. Valaulikar, B.H.M.S., <i>Demonstrator, Mat. Medica</i>
R. T. Parkar, M.B.B.S., <i>Lecturer, Anatomy.</i>	M.M. Arya, B.H.M.S., <i>Demonstrator, Mat. Medica</i>
S.D. Naik, B.H.M.S., <i>Lecturer, Anatomy.</i>	R. R. Shirvoikar, B.H.M.S., <i>Demonstrator, Hom. Pharm</i>
R.A. Dhume, M.D., <i>Professor, Physiology.</i>	B.H.M.S., <i>Demonstrator, Hom.Pharm.</i>
S. Prabhudesai, M.D., <i>Lecturer, Physiology.</i>	
Jean Antao, B.H.M.S., <i>Demonstrator, Physiology</i>	

4.36.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture, Date)

- Kishore Mehta,** Dir. P. G. Studies Horn. Medical College Ahmedabad, *An approach to study of Organon of Medicine & Horn. Philosophy*, 11/04/1999.
- K. P. Muzumdar,** Prof. Manitoba Institute of Holm Inc.winnipeg, Manitoba, Canada, *Evolution of Diseases*, 22/04/1999.

Seminars/Conferences/Workshops etc.

- (a) **Organized:** (Theme, Dates, Funding Agency, Department)

An Integrated Approach to Hom. prescribing, 10/04/1999 and 11/04/1999, *KHMC, Shiroda Goa, Materia. Medica.*

Evolution of Diseases, 24/04/1999, *KHMC. Shiroda Goa, Materia Medica.*

4.36.10 Any other information:

Arvind Kothe attended a workshop on *Central Council of Horn regulation — Review*, at Vidhya Bhavan, New Delhi.

4.37 National Hydrographic School, Vasco-da-Gama

4.37.1 List of Teaching Staff: (Name, Qualifications, Designation, Department)

CDR S. S. Karnik, M.Sc., <i>Officer-in-Charge</i>	Lt. V. M. Apte, B.Sc., <i>Head of Department,</i>
Lt. Hemanth Kumar, B.E., <i>Head of Department,</i>	<i>Hydrographic Practice.</i>
<i>Ancillary Hydrography.</i>	Lt. Cdr. G. S. Pujar, B.E., <i>Electrical Officer</i>
Lt. T. P. Mahato, B.Sc., <i>Head of Department,</i>	Lt. Cdr. A. Sreedharan, B.Sc., <i>Chief Instructor</i>
<i>I-Hydrographic Control.</i>	Lt. Cdr. B. S. Rainu, B.Sc., <i>Sr. Instructor</i>

4.38 Padre Conceicao College of Engineering, Verna.

•OA UNIVFSIT?'

4.38.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

B. L. N. Sastry, Ph.D., <i>Principal, Mech. Engg.</i>	Deepa Majithia, B.E., <i>Lecturer, Comp. Engg.</i>
Dayanand Pai, M.E., <i>Lecturer, Mech. Engg.</i>	Ranjita Pal, B.E., <i>Lecturer, Comp. Engg.</i>
C.V. Pujari, B.E., <i>Lecturer, Mech. Engg.</i>	Bhindiya Bhatkar, B.E., <i>Lecturer, Comp. Engg.</i>
Suraj Rane, B.E., <i>Lecturer, Mech. Engg.</i>	Nilotpal Gupta, B.E., <i>Lecturer, Comp. Engg.</i>
Geetalakshmi, K., <i>M.Tech, Lecturer, Mech. Engg.</i>	Jyoti Bhat, B.E., <i>Lecturer, Comp. Engg.</i>
Jaganath Hirkude, B.E., <i>Lecturer, Mech. Engg.</i>	Neena Panandikar, B.E., <i>Lecturer, Civil Engg.</i>
Joe Kirian, B.E., <i>Lecturer, Mech. Engg.</i>	Tania Gomes, B.E., <i>Lecturer, Civil Engg.</i>
Joseph Pereira, B.E., <i>Lecturer, Mech. Engg.</i>	Natasha Viegas, B.E., <i>Lecturer, Elect. Engg.</i>
Brij M. Marwaha, M.S., <i>Asstt. Professor, Electro. & TC Engg.</i>	Arun Torgal, B.E., <i>Lecturer, Elect. Engg.</i>
Supriya Patil, B.E., <i>Lecturer, Electro. & TC Engg.</i>	Kala Nayak, M.Phil, <i>Lecturer, Mathematics.</i>
Manisha Crasto, B.E., <i>Lecturer, Electro. & TC Engg.</i>	Adarsh Handa, M.Sc., <i>Lecturer, Mathematics.</i>
Niyan Marchon, B.E., <i>Lecturer, Electro. & TC Engg.</i>	Staju Jacob, M.M.S., <i>Lecturer, Business Administration.</i>
J. Iven, M.Tech, <i>Lecturer, Electro. & TC Engg.</i>	Vikas V. Bhujle, M.Sc., <i>Lecturer, Physics</i>
Ashwini Kenkre, B.E., <i>Lecturer, Comp. Engg.</i>	C. N. Pereira, M.Sc., <i>Lecturer, Chemistry.</i>
	Lucy Godino, B.E., <i>Lecturer, Electro. & TC Engg.</i>



4.39 Vidya Vikas Mandal's Institute Of Management Training & Research, Margao

4.39.1 List of Teaching Staff: (Name, Qualifications, Designation, Subject)

A.Suresh Rao, LL.B., <i>Director</i>	V. Cuncolienkar, LL.B., <i>Associate Faculty</i>
A.S.Nadkarni, L.L.M., <i>Associate Faculty</i>	V. V. Pawar, L.L.M., <i>Associate Faculty</i>
G. Philips, B.Ed., <i>Associate Faculty</i>	V. G. Patil, M. Sc., <i>Associate Faculty</i>
Rodney D'Silva, M.M.S., <i>Associate Faculty</i>	R. Singh, M. B. A., <i>Associate Faculty</i>
K. B. Rao, M. A., <i>Associate Faculty</i>	R. P. Fondekar, M.M.S., <i>Associate Faculty</i>
Santosh Virnodkar, M.Com., <i>Associate Faculty</i>	Faculty . Ainapure, M. B. A., <i>Associate Faculty</i>
Sachin Mirajkar, M.B.A., <i>Associate Faculty.</i>	B. . Silvester, M.M.S., <i>Associate Faculty</i>

4.39.5 Seminar/Conferences/Workshops,etc.

(a) Organised:(Theme, Dates, Funding Agency, Name of Department)

Eco system Management, 09/11/1998 to 13/01/1999, Government of India, Ministry of Environment & Forest.

(b) (i) Attended Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

A. Suresh Rao, Kala Academy, 16/09/1998, *Human Rights — Indian Scenario.*



4.40 Institute Of Psychiatry & Human Behavior, Altinho Panaji.

4.40.1 List of Teaching Staff: (Name, Qualifications, *Designation*)

J. M. Fernandes, M.D., *Director & Professor*

P. J. Duide, M.D., *Asstt. Professor*

H. A. Borkar, M.D., *Asstt. Professor*

Maria Yvonne da Silva Pereira, M.D., *Lecturer*

Ashutosh Prabhu Dessai, M.D., *Lecturer*

D. S. Kukalekar, M.D., *Lecturer*

4.40.2 Highlights of the research activities of the institute:

The research activities in the IPHB includes preparation of thesis as a requirement for the M.D.(Psychiatry), besides this other research activity by the various faculty members Preson Psychiatry and Clinical Psychiatry. Collaboration research project are also taken up with G.M.C. and Dental College.

4.41 Institute Of Safety, Occupational Health and Environment, Altinho, Panaji

4.41.1 List of Teaching Staff: (Name, *Designation*)

C. V. Dhume, *Director*

4.41.2. Highlights of the research activities of the Institute:

The institution conducts industry need based academic courses like Diploma in Occupational and Industrial Health, Post Graduate Diploma in Environmental Pollution Control Technology and non academic courses in Industrial Safety, First Aid.

4.41.5 Seminars/Conferences/Workshops, etc.

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

Energy conservation workshop for fuel oil/light diesel oil conservation, 08/12/1998, ISOHE/SISI/ PRA.

Environment & Human Rights, 17/01/1999, ISOHE.

Safe use of Computers, 26/02/1999, ISOHE /RT.128.

4.41.6 (a) **Publications (Research Articles):** (Name of teacher, *Title, Journal, Volume, Month/Year*)

Manish N. Gaunekar, *Skin lesions amongst workers at Petroleum Products Distribution outlet in Goa, Indian Journal of Occupational and Environmental Medicine, Vol. 3 No. 2, April — June 1999.*

4.42 Goa Institute of Management Studies, Caranzalem.

4.42.1 List of Teaching Staff: (Name, Qualifications, *Designation*)

J. V. Gaitonde, P.G.D.B.A.(IIMA), *Director.*

Admissions for Professional Courses

	U.G.					P.G.		Total
	1st Y.	2nd Y.	3rd Y.	4th Y.	5th Y.	1st Y.	2nd Y.	
23.GPHA(B.Pharm.)	51	46	46	38				181
24.GENG(B.E. & M.E.)								
25.NIRM(B.Ed.)	103							103
(B.Ed.) (Part time)	25							25
(M.Ed.)	12							12
(Ph.D.)	8							8
26.GART(B.F.A.)	42	37	46	39				164
27.SALG(L.L.B)								
28.KARE(L.L.B)	98	38	22					158
29.GDEN(B.D.S)	28	25	30	30	30	5	5	153
30.GARC(B.Arch.)	32	43	49	27	36			187
31.GMUS(B.Music.)	14	7	4	6	11			42
32.NURS(B.Sc. Nursing)	10	105						115
33.EDUC(B.Ed.)	100							100
34.AYUR(B.A.M.S)*	39	53	54					146
35.GMED(M.B.B.S)*	70							70
(B.D.S.)	30							30
(MD/MS/DMRD/DVD/DCH/DPM/ DGO)						44		44
(M.Sc.Biochemistry)						2		2
36.GKHM. (B.H.M.S.)	32							32
38.GNHS. (M.H.S.)	04							04
	698	354	251	140	77	51	5	1576

* M.B.B.S./B.A.M.S.consists of three examinations at the end of three terms each.

Institution	Diplomas in Recognised Institutions						Total
	D.A.M.	D.B.M.	DPM	M.D.	PGDPCT	DOIH	
39. I M	32	28					60
40. I P			2	1			3
41. ISO					15	7	22
42. G I	30	30					60
Total	62	58	2	1	15	7	145



PART 5: RECOGNIZED INSTITUTIONS

5.0 List of Recognized Institutions:

1. Xavier's Centre Of Historical Research, Alto Porvorim
2. Malaria Research Centre, Panaji
3. Directorate of Archives, Panaji
4. National Centre for Antarctic & Ocean Research, Vasco-Da-Gama
5. National Institute of Oceanography, Dona Paula

5.1 Xavier' Centre Of Historical Research, Alto Porvorim.

5.1.1 List of Teaching Staff: (Name, Qualifications, Designation)

Charles J. Borges, Ph. D., *Director*

5.1.5 Seminars/Conferences/Workshops, etc.

(b) (i) **Attended: Seminars/Conferences:** (Name of Teacher, Theme of Conference, Place, Date, Title of Paper)

Charles J. Borges, 9th *International Seminar on Indo-Portuguese History on Science, Technology and Culture*, Indian National Science Academy, New Delhi, 07/12/1999 to 11/12/1998, *Catholic missionaries in the Estado da India and their insights into Indian culture, science, medicine, life and manners.*

Charles J. Borges, 19th *South Indian History Congress*, Loyola College, Chennai, 24/01/1999 to 26/01/1999, *Goa and the Jesuits in India 1542 — 175: their strengths and weaknesses.*

Charles J. Borges, 3rd *International Conference of Lusotopia on "Portuguese Speaking Space in Asia: Asians in Portuguese speaking space"*, Goa University, 24/03/1999 to 26/03/1999, *The changing faces of Christianity in Goa: From being Portuguese to being India?*

(b)(ii) **Attended Workshops:** (Name of Teacher, Theme of Workshop, Place, Date)

Charles J. Borges, 3rd *International Conference on "the Portuguese Urbanistic Universe 1415-1822"*, University of Coimbra, Portugal, 02/03/1999 to 06/03/1999.

Charles J. Borges, *Conference on "The Evolution of Portuguese Asia: Quincentenary Reflections 1498-1999"*, College of Charleston, South Carolina, USA, 18/03/1999 to 20/03/1999.

5.1.6 (a) Publications (Research Articles): (Name of Teacher, Title, Journal, Volume, Month/Year)

Charles J. Borges, *O Pensamento social nos sermoes do Padre Antonio Vieira, S. J. urn homem que aconselhou e curou muita gente, Terceiro Centenario da morte do Padre Antonio Vieira, Actas, Vol. II, Braga, pp. 1113 — 1123, 1999.*

5.2 Malaria Research Centre, Panaji.

5.2.1 List of Teaching Staff: (Name, Qualifications, Designation)

Ashwani Kumar, Ph. D., *Senior Research Officer and In-charge*
D. Thavaselvam, M. Sc., *Asstt. Research Scientist*
P. K. Sumodan, Ph. D. , *Asstt. Research Scientist*

5.2.2. Highlights of the research activities of the Institute:

Forecasting of malaria outbreaks in Goa. Studies on the fungal association of mosquito vectors in Goa. Isolation, characterisation, identification, culture and testing of Bacilli pathogenic to mosquitoes in Goa. Role of larvivorous fishes in the control of An Stephensii in the wells. Resting behaviour of Anopheles stephensi in Goa. Sero epidemiological studies on Malaria. Malaria survey among construction labour community

5.2.5 Seminar/Conferences/VWorkshops,etc

(a) **Organized:** (Theme, Dates, Funding Agency, Name of Department)

Wworkshop on Inter-sectoral Co-ordination for the control of malaria and mosquitoes, 10/03/1999 to 12/03/1999, Goa.

Wworkshop on Inter-sectoral Co-ordination for the control of malaria and mosquitoes, 25/03/1999 to 27/03/1999, Navi Mumbai.

(b) (ii) **Attended Workshops:**(Name of Teacher, Theme of Workshop, Place, Date, Title of the paper)

Dr. Ashwani Kumar, 13th National Congress of Parasitology, Bangalore, 24/02/1999 to 26/02/1999, *Emergence of malaria as major public health problem in Goa.*

Dr. P. K. Sumodan, 4th International Symposium on Vectors and Vector Borne Diseases, Gwalior, 18/02/1999 to 20/02/1999 *A Study on malaria prevalence in migrant construction workers during low transmission season in Goa, India.*

5.2.6 (a) Publications (Research Articles): (Name of Teacher, Title, Journal, Volume, Month/Year)

Ashwani Kumar, V.P. Sharma, D. Thavaselvam and P.K. Sumodan, *Field trials of Bacillus thuringiensis, var. israelensis, strain, 164 and the larvivorous fish Aplocheilus blocki for malaria control in Goa, India, Journal of American Mosquito Control Association, 14(4), 1998.*

Ashwani Kumar, and P. K. Sumodan, *Distribution and Feeding efficacy of Larvivorous fishes of Goa, Indian Journal of Malariology, 35(3), 1998.*

5.2.8 Any other information:

Dr. Ashwani Kumar was awarded the "Outstanding Young Person of the World, 1998 award" by Jaycees International for his contributions to Science and Technology at Manila, Phillipines.



5.3 Directorate of Archives, Panaji.

5.3.1 List of Teaching Staff: (Name, Qualifications, Designation)

P. P. Shirodkar, Ph.D., *Director*
S. K. Mhamai, Ph.D., *Archivist (Management).*

5.3.2 Highlights of the research activities of the Institute:

The Directorate brought out the issue of Purabhilekh Puratatva. Selected the old documents for the Archives week celebration laying stress on History, Politics and administration..

5.3.5 Seminar/Conferences/Workshops, etc.

(a) **Organized:** (*Theme, Dates, Funding Agency, Name of Department*)

13th Local History Seminar and Symposium on "Goa's Struggle for Freedom" and "Folklore and History", 26/03/1999 and 27/03/1999, Goa University nad the Directorate.

(b) (i) **Attended: Seminars / Conferences:** (*Name of Teacher, Theme of Conference, Place, Date, Title of Paper*)

P. P. Shirodkar, /3¹¹ *Local History Seminar and Symposium on "Goa 's Struggle for Freedom" and "Folklore and History", Goa University, 26/03/1999 and 27/03/1999, Goa Liberation Aftermath: Salazar's Recalcitrant Stand".*

5.4 National Centre for Antarctic & Ocean Research, Vasco-Da-Gama

P.C.Pandey, Ph.D., *Director.*

5.5.10 Any other information:

1. The XIX Indian Antarctic Expedition is proposed to be launched in the second week of December 1999 from Cape Town, South Africa. There are 17 national laboratories, universities and defence laboratories involved in the programme.
2. Strategy for Science in Antarctic has been prepared and has been reviewed by the Governing Council of National Centre for Antarctic & Ocean Research.



5.5 National Institute of Oceanography

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PART 6: FINANCIAL STATEMENT

6.1 Grants:

6.1.1 Grants from the State Government

Maintenance & development grants from the **Government of Goa** Rs.6,21,30,000.00

6.1.2 Grants from University Grants Commission

1. Academic Staff College	Rs. 23,15,152.00
2. Laboratory Equipment	Rs. 04,40,143.00
3. IX Plan Development Grants	Rs. 52,40,000.00
4. Centre for Latin American Studies	Rs. 11,50,000.00
5. Major Research Projects — Dr. S. G. Tilve, Dept. of Chemistry	Rs. 00,85,140.00
6. Building (Grants for MMS)	Rs. 15,00,000.00
7. Financial assistance for setting up Centre Computing Facility	Rs. 01,50,000.00
8. M. Phil course in Environmental Sciences	Rs. 06,50,000.00
9. ASC — Organisation of Work Shop	Rs. 04,50,000.00

6.1.3 Central Government Departments and other agencies:

I	Council of Scientific & Industrial Research	Effect of UV — B radiation photosynthesis its mechanism of damage & protection against UV-I3 radiation wheat under laboratory condition — Dr. P. K. Sharma, Dept. of Botany.	Rs.00, 57,300.00
		Studies on legumes of Goa with reference to nutritional values economic importance & conservation — Dr. B. F. Rodrigues, Dept. of Botany.	Rs.00, 23,218.00
2.	Department of Ocean Development, New Delhi	Manpower development Associationship/ Fellow under the leadership of Dr. Mavinkurve, Department of Microbiology.	Rs. 00,77,000.00
		Ocean Science & Tech. Cell (OSTC) on Marine Microbiology — Dr. S. Mavinkurve, Department of Microbiology.	Rs. 10,00,000.00
		A case study on coastal zone Management Bio-Geo-Chemical cycling of environmental sensitive elements in the Mandovi — Zuari Riverira — Dr. V. M. Matta, Department of Marine Science.	Rs.09,78,250.00
3.	Dept of Science & Technology, New Delhi	Res. Proj. Catalytic animation of T-Butyl Alcohol over modified 25m-5 catalysis- Dr. J. B. Fernandes, Department of Chemistry.	Rs. 01,50,000.00
		Ultra Structure of Transport pathways in rice carrying operation during grain filling — Dr. S. Krishnan, Dept. of Botany.	Rs.00,75,000.00
		Identification and selection of Vesicute asbuscular myoorshad fungi — Dr.I3. F. Rodrigues, Dept. of Botany.	Rs. 02,50,000.00
4.	Dept. of Bio-Technology	Post graduation course in Marine Biotechnology.	Rs.09,06,800.00
5.	Grants from Indian Council relations	Scholarship to Luis Eduardo Daesta student of M.Sc.	Rs.00,50,379.00
6	Department of Environment Forest & Wild Life	Use of Cyano bacteria for classification of waste water of mining site — Dr. Irene Furtado, Dept. of Microbiology.	Rs. 10,94,800.00

7.	Dept. of Atomic Energy	National Board of Higher Mathemation Library books & journals.	Rs. 01,70,000.00
8.	Inter University Consortium Indore	Development of some industrially important carbonate monomers — Dr. V. S. Nadkarni Dept. of Chemistry.	Rs. 01,41,036.00
		Res. Prog. Structural aspects of Fe ₂ O ₃ qualifying H ⁺ in actahedral sites of spinal — Fe ₂ O ₃ — Dr. K. S. Rane, Dept. of Chemistry.	Rs.00,24,723.00
		Res. Prog-Structures of rare earth oxide glasses — Dr. J.A.E. De'Sa, Dept. of Physics.	Rs. 01,02,806.00
9.	Indian Council of Philosoptical Research	Res. Prog. Magnetic neutron scattering studies of verium kaudo system — Dr. R. B. Prabhu & Dr. P. R. Sarode, Dept. of Physics.	Rs. 00,67,000.00
10	Department of Bio- Technology	Res. Prog. — designing an optimally shielded neutron beam path servicing IUC neutron spectrometers at dhruva — Dr. J. E. De'Sa Dept. of Physics.	Rs. 00,02,430.00
		Jr. Res. Fellowship for project the Philosophy of koerl popper — Mrs. M. B. Desai, Dept. of Philosophy.	Rs. 00,14,769.00
11	Grants from Shastri Indo- Canadian Institute	National Science Day.	Rs.00,10,000.00
12	Grants from small industries Development, Bank of India	Application of Natural & recombinent micro- organism to bio-surfactant production oil spill degradation & pollution control Dr. U.	Rs. 04,70,000.00
13	Dept. of Rural development Rajiv Gandhi National Drinking Water Mission	M.X. Sangodkar, Dept. of Mar. Biotech.	Rs. 00,33,775.00
		Strengthening of training & research in Microbiology.	Rs. 00,22,500.00
14	Grants from Indian Council of Medical Research	Development of Indo-Canadian studies in the University.	Rs.02,03,600.00
15	Department of Space	Small industries management assistants programme —95 (Commerce SIMAP — 95) Techniques of domestic water conservation & optimisation through conjective use of tap water & shallow ground water — Dr. A. G. Chachadi Dept. of Geology.	Rs.01,72,012.00
16	National Inframetic Centre	Investigation of Fungus bio-control agents of mosquito vectors of Malaria Filaria & Japanese Enciphalitis in Goa — Dr. D.J. Bhat — Dept. of Botany.	Rs .10,00,000.00
6.1.4	State Government Agencies:		
a)	Scholarships	Establishing remote sensing facility at Goa University — Goa.	Rs.02,60,000.00
		Quantitative analysis of water — Dr. H. B. Menon, Dept. of Marine Science. National Inframetic Centre	Rs.03,72,883.00
1.	Economically Backward class Scholarships		Rs. 00,12,150.00
2.	National Scholarship		Rs. 00,02,400.00
3.	Post-metric scholarship for 50 students		Rs. 00,02,965.00
4.	National Service Scheme		Rs. 05,44,362.00
5.	Educational concession to the children of Freedom Fighters		Rs. 00,00,700.00

b) Grants from Goa State Council for Science & Technology	
1. Survey/Study , Collection & Documentation of Plant Diversity of Goa - Dr. M.K. Janarthanam	Rs. 01,00,800.00
2. Survey of Halophilic Micro-organisms for conversion of fish waste & trash fish to fish sauce — Dr. I. Furtado, Dept. of Microbio.	
	Rs.00,60,000.00
c) Directorate of Education	
1. Constitution of steering Committee for setting up of State of the Art Centre for training of software professionals.	Rs.5,00,000.00
d) Other Bodies	
1. Seminar on Industrial effluents & coastal pollution held in February'99 organised jointly by ISEST & Goa University.	Rs. 00,12,000.00
2. Consultancy project of Terra Firma Environmental Consultants Pvt.Ltd., - Dr. G. N. Nayak, Dept. of Mar. Sc.	Rs. 03,17,000.00
3. IMACA meeting & International symposium on Ecology of Fungi.	Rs. 00,51,000.00
4. Setting up a distance education, information & Training infra-structure at Goa University.	Rs. 12,50,000.00
5. Constant altitudes ballon launching for Indian Ocean experiment programme.	Rs. 01,32,000.00
6. Training Course on environmental awareness programme.	Rs. 00,78,000.00
7. Indomer coastal hydraulier by — Dr. G. N. Nayak Dept. of Mar. Science.	Rs. 00,16,740.00
8. Training of MCA graduates in Jara & Internet related software platforms.	Rs. 02,40,000.00
9. Consultancy project for phil systems loading — Dr. V. V. Kamat, Department of Computer Science and Technology.	Rs. 00,27,500.00
10. Third International Conference of Lusotopic held by Department of Political Science.	Rs.00,84,580.00
11. Training programme in Remote sensing & its application — Dr. H. B. Menon, Department of Marine Science.	Rs.00,30,000.00

6.2 Endowments:

The Prizes and Medals instituted during 1998-'99t

I. Prof. F. B. Antao Felicitation Committee, C/o. Dhempe College of Arts & Science, Miramar. The medal for the First Rank in M.Sc. Geology	Rs. 25,000.00
2. Late Adv. H. M. N. Gaunekar Memorial Prize , Margao Goa. A prize for the students securing First Rank in LL.B.	Rs. 25,000.00
3. Late Mrs. Laximibai R. Shirodkar Memorial Prize . Prize for the First Rank in M. S. (Gen. Surgery) & B. E. (Computer Engg.).	Rs. 50,000.00
4. M/s. Bharat Coca-Cola Bottling South East Private Ltd., Bangalore. 12 Scholarships for M.Sc. students in Chemistry and 10 Scholarships for M.Com. students.	Rs. 08,81,000.00
5. Keith Vaz (Sahara Scholarship): For students securing 1st, IInd and IIIrd at Part I & II MBBS programme.	Rs. 02,25,000.00

6.3 Expenditure (Rs. in Lakh)

	Budget Estimates (1998-99)			Revised Estimates (1998-99)		
	Recurring	Non-Recurring	Total	Recurring	Non-Recurring	Total
Plan	367.18	411.35	778.53	285.45	431.48	716.93
Non-Plan	561.21	4.00	571.21	426.03		426.03

	Actuals (1998-99)			Budget Estimates (1999-2000)		
	Recurring	Non-Recurring	Total	Recurring	Non-Recurring	Total
Plan	251.92	328.30	580.22	566.17	176.81	742.98
Non-Plan	377.56	--	377.56	700.22	8.00	708.22



Faculty Block D)



Centre for Latin American Studies ;

